

SEQUENCE LISTING

<110> Xu, Jiangchun
 Dillon, Davin C.
 Mitcham, Jennifer L.
 Harlocker, Susan L.
 Jiang, Yuqui
 Henderson, Robert A.
 Kalos, Michael D.
 Fanger, Gary R.
 Retter, Marc W.
 Stolk, John A.
 Day, Craig H.
 Vedvick, Thomas S.
 Carter, Darrick
 Li, Samuel
 Wang, Aijun
 Skeiky, Yasir A.W.
 Hepler, William

<120> COMPOSITIONS AND METHODS FOR THE THERAPY AND
 DIAGNOSIS OF PROSTATE CANCER

<130> 210121.427C23

<140> US

<141> 2001-01-12

<160> 934

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 814

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(814)

<223> n = A,T,C or G

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cttcatggac	agtgctccagc	acatgtcact	ctccactctc	tcagtgtgga	tccactagtt	360
ctagagcggc	cgccaccgcg	gtggagctcc	agcttttggt	cccttttagtg	agggttaatt	420
gcgcgcttgg	cgtaatcatg	gtcataactg	tttcctgtgt	gaaattgtta	tccgctcaca	480

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attccacaca acatacagagc cggaagcata aagtgtaaag cctgggggtgc ctaatgagtg 540
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tgccagctgc attaatgaat cggccaacgc ncggggaaaa gcggtttgcg ttttgggggc 660
tcttccgctt ctgcctcact nantcctgcg ctcggtcntt cggctgcggg gaacgggtatc 720
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<210> 2
<211> 816
<212> DNA
<213> Homo sapien

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<220>
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<222> (1)...(816)
<223> n = A,T,C or G

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ctaaagtctg atgaacttcc caatcagatg agcatggatg attggccaga aatgaagaag 180
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gccgccaccg cgggtggagct ccagcttttg ttcccttttag tgagggttaa ttgcgcgctt 480
ggcgtaataca tggatcatagc tgtttctctgt gtgaaattgt tatccgctca caattcccc 540
aacatacgag cgggaacata aagtgttaag cctgggggtgc ctaatgantg agctaactcn 600
cattaattgc gttgcgctca ctgcccgtt tccagtcggg aaaactgtcg tgccactgcn 660
ttantgaatc ngccaccccc cgggaaaagg cggttgcntt ttgggcctct tccgttttcc 720
tcgctcattg atcctngcnc ccggtcttcg gctgcgngga acggttcaact cctcaaaggc 780
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<210> 3
<211> 773
<212> DNA
<213> Homo sapien

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<220>
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<222> (1)...(773)
<223> n = A,T,C or G

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<400> 3
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tcttcaaaag tcagaaccgg agtcacacag gcatctgtgc cgtcaaagat ttgacaccac 180
tctgccttcg tcttctttgc aaatacatct gcaaacttct tcttcatttc tggccaatca 240
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ccaattcgcc ctatantgag tcgtattacg cgcgctcact ggccgtcggt ttacaacgct 480
gtgactggga aaacctggg cgttaccac ttaatcgct tgcagcacat ccccttttcg 540
ccagctgggc gtaatancca aaaggccgc accgatcgcc cttccaacag ttgcgcacct 600

```

```

gaatgggnaa atgggacccc cctgttaccg cgcattnaac ccccgcnngg tttngttggt      660
acccccacnt nnaccgctta cactttgcca gcgccttanc gcccgctccc tttcnccctt      720
cttcccttcc tttcnncncn ctttcccccg gggtttcccc cntcaaacc cna                773

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<210> 4
<211> 828
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(828)
<223> n = A,T,C or G

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tcggaacact ggctgtctct gaagacttct cgctcagttt cagtgaggac acacacaaaag      180
acgtgggtga ccatgttggt tgtggggtgc agagatggga ggggtggggc ccaccctgga      240
agagtggaca gtgacacaag gtggacactc tctacagatc actgaggata agctggagcc      300
acaatgcatg aggcacacac acagcaagga tgacnctgta aacatagccc acgctgtcct      360
gngggcactg ggaagcctan atnaggccgt gagcanaaag aaggggagga tccactagtt      420
ctanagcggc cgccaccgcg gtgganctcc ancttttggt cccttttagtg agggttaatt      480
gcgcgcttgg cntaatcatg gtcatanctn tttcctgtgt gaaattgtta tccgctcaca      540
attccacaca acatacganc cggaacataa aantgtaaac ctgggggtgcc taatgantga      600
ctaactcaca ttaattgctg tgcgctcact gcccgctttc caatcnggaa acctgtcctg      660
ccncttgcat tnatgaatcn gccaaccccc ggggaaaagc gtttgcgttt tgggcgctct      720
tccgcttcc cncctcantta ntccctncnc tcggtcattc cggtcgngc aaaccggttc      780
accnctcca aaggggggtat tccggtttcc ccnaatccgg gganancc                828

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```

<210> 5
<211> 834
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(834)
<223> n = A,T,C or G

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<400> 5
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attttataac aatcaacacc tgtggctttt aaaatttggt tttcataaga taatttatac      180
tgaagtaaat ctagccatgc ttttaaaaaa tgcttttagt cactccaagc ttggcagtta      240
acatttggca taaacaataa taaaacaatc acaatttaat aaataacaaa tacaacattg      300
taggccataa tcatatacag tataaggaaa aggtggtagt gttgagtaag cagttattag      360
aatagaatac cttggcctct atgcaaatat gtctagacac tttgattcac tcagccctga      420
cattcagttt tcaaagtagg agacaggttc tacagtatca ttttacagtt tccaacacat      480
tgaaaacaag tagaaaatga tgagttgatt tttattaatg cattacatcc tcaagagtta      540
tcaccaaccc ctgagttata aaaaattttc aagttatatt agtcatataa cttggtgtgc      600
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gatattggtc atttttacca gcttctaaat ctnaactttc aggcttttga actggaacat      720
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834

<400> 6

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<220>
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<222> (1)...(817)
<223> n = A,T,C or G
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<400> 7

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ggtttgctcc	acagattttca	gagcattgac	cgtagtatac	ccccggctgt	gtagcgggta	180
aagtgggttg	gttttagacgt	ccgggaattg	catctgtttt	taagcctaata	gtggggacag	240
ctcatgagtg	caagacgtct	tgtgatgtaa	ttattatacn	aatgggggct	tcaatcggga	300
gtactactcg	attgtcaacg	tcaaggagtc	gcaggtcgcc	tggttctagg	aataatgggg	360
gaagtatgta	ggaattgaag	attaatccgc	cgtagtcggt	gttctcctag	gttcaataacc	420
attggtggcc	aattgatttg	atggtaaggg	gagggatcgt	tgaactcgtc	tgttatgtaa	480
aggatnccct	ngggatggga	aggcnatnaa	ggactangga	tnaatggcgg	gcangatatt	540
tcaaacngtc	tctanttctt	gaaacgctct	aaatgttaat	aanaattaan	tttngttatt	600
gaatnttnng	gaaaagggct	tacaggacta	gaaaccaaata	angaaaanta	atnntaangg	660
cnttatcntn	aaaggtnata	accnctccta	tnatcccacc	caatngnatt	ccccacncnn	720
acnattggat	nccccanttc	canaaanggc	cncctcccggt	tgnannccnc	cttttgttcc	780
cttnantgan	ggttattcnc	ccctngcntt	atcance			817

$\langle 210 \rangle$	10
$\langle 211 \rangle$	789

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

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agatcctgcc ctacacactg gcctccctct accaccggga gaagcagggtg ttcttgccca 180
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tgctcccacc tccaccgcg ctctgcgggg cctctgcctg tgatgtctcc gtacgtgtgg 360
tggtgggtga gccaccgan gccagggtgg ttccggggcc gggcatctgc ctggacctgc 420
ccatcctgga tagtgcttcc tgetgtccca nggtggccca tccctgttta tgggctccat 480
tgtccagctc agccagtctg tcaactgcta tatggtgtct gccgcaggcc tgggtctggt 540
cccatttact ttgttacaca ggtantattt gacaagaacg anttggccaa atactcagcg 600
ttaaaaaatt ccagcaacat tgggggtgga aggctgcct cactgggtcc aactccccgc 660
tctgttaac cccatggggc tgccggcttg gccccaatt tctgttctgc ccaaantnat 720
gtggctctct gctgccacct gttgctggct gaagtgcnta cngcncanct nggggggtng 780
ggngttccc 789

<210> 11
<211> 772
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

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accaacaggc cacatcctga taaaaggtaa gaggggggtg gatcagcaaa aagacagtgc 180
tgtgggctga ggggacctgg ttcttgtgtg ttgcccctca ggactcttcc cctacaaata 240
actttcatat gttcaaatcc catggaggag tgtttcatcc tagaaactcc catgcaagag 300
ctacattaaa cgaagctgca ggttaagggg cttanagatg ggaaaccagg tgactgagtt 360
tattcagctc ccaaaaaccc ttctctaggt gtgtctcaac taggaggcta gctgttaacc 420
ctgagcctgg gtaatccacc tgcagagtec ccgcattcca gtgcatggaa cccttctggc 480
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aactggggaa aaaagaaaag gacgccccan ccccagctg tgcanctacg cacctcaaca 600
gcacagggtg gcagcaaaaa aaccacttta ctttggcaca aacaaaaact ngggggggca 660
accccgccac ccnangggg gttaacagga ancngggnaa cntggaaccc aattnaggca 720
ggcccnccac ccnaatntt gctgggaaat ttttctccc ctaaattntt tc 772

<210> 12
<211> 751
<212> DNA
<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(751)
 <223> n = A,T,C or G

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 ttggctgtgt tggtagcgtt gtcattgcaa cagaatgggg gaaaggcact gttctctttg 180
 aagtanggtg agtcctcaaa atccgtatag ttgggtgaagc cacagcactt gagccctttc 240
 atgggtggtg tccacacttg agtgaagtct tcctgggaac cataatcttt cttgatggca 300
 ggcactacca gcaacgtcag ggaagtgtct agccattgtg gtgtacacca aggcgaccac 360
 agcagctgcn acctcagcaa tgaagatgan gaggangatg aagaagaacg tcncgagggc 420
 acacttgctc tcagtcttan caccatanca gcccntgaaa accaananca aagaccacna 480
 cnccggctgc gatgaagaaa tnaccccnog ttgacaaact tgcattggcac tggganccac 540
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 ccaacagggg ctgccccacn cncnnaacga tganccnatt gnacaagatc tncntggtct 660
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 aangaactcn gaagncccca cngganannc g 751

<210> 13
 <211> 729
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(729)
 <223> n = A,T,C or G

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 gaagantcac ctacttcaaa gaaaanagt cctttccccc atttctgttg caattgacaa 660
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 attnaaggg 729

<210> 14
 <211> 816
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(816)
 <223> n = A,T,C or G

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ggcaggtcca cgcagtgcc tttgtcactg gggaaatgga tgcgctggag ctcgtaaaag      180
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cangtgccag agcacaactgg atggcgctt tccatgnnan gggccctgng ggaaagtccc      360
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gggacaaggt aantngccnt cctttnaatt cccnanentn ccccttggtt tggggttttn      720
cncnctccta ccccgaaaan nccgtgttcc ccccaacta ggggcnaaa ccnntnttcc      780
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<210> 15
<211> 783
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(783)
<223> n = A,T,C or G

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<400> 15
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aagaccmeta ccaggtggaa ctgtggggac tcaaggaang cacctacctg ttccagctga      180
cagtgactag ctgagaccac ccagaggaca cggccaacgt cacagtcact gtgctgtcca      240
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gcttgggcaa caagaacaac taccttcggg aagaagagtg cattctancc tgtcnggggtg      420
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ccatggaaag ggcacatcca ntgttctctg gcacctgtca gcccaccag ttccgctgca      540
ncaatggctg ctgcacnac antttcctng aattgtgaca acacccccca ntgcccccaa      600
ccctcccaac aaagcttccc tgttnaaaaa tacnccantt ggcttttnac aaacnccogg      660
cncctcctt ttcccnntn aacaaagggc nctngcnttt gaactgccn aaccnnggaa      720
tctnccnngg aaaaantncc ccccttggtt cctnnaancc cctccnnaa anctncccc      780
ccc

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<210> 16
<211> 801
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(801)
<223> n = A,T,C or G

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<400> 16

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gccccaatlc cagctgccac accacccacg gtgactgcat tagttcggat gtcatacaaa      60
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ttggctgtgt tggtagcgtt gtcattgcaa cagaatgggg gaaaggcact gttctctttg      180
aagtaggggtg agtcctcaaa atccgtatag ttggtgaagc cacagcactt gagccctttc    240
atgggtgggtg tccacacttg agtgaagtct tcctgggaac cataatcttt cttgatggca      300
ggcactacca gcaacgtcag gaagtgetca gccattgttg tgtacaccaa ggcgaccaca      360
gcagctgcaa cctcagcaat gaagatgagg aggaggatga agaagaacgt cncgagggca      420
cacttgctct cctcttagc accatagcag cccangaaac caagagcaaa gaccacaacg      480
ccngctgcga atgaaagaaa ntacccacgt tgacaaactg catggccact ggacgacagt      540
tggcccgaan atcttcagaa aagggatgcc ccacgattg aacacccana tgcccactgc      600
cnacagggct gcncncncn gaaagaatga gccattgaag aaggatcntc ntggctcttaa      660
tgaactgaaa ccntgcatgg tggcccctgt tcagggtctt tggcagtga tttctganaaa      720
aaggaacngc ntnagcccc ccaaangana aaacaccccc ggggtgttgcc ctgaattggc      780
ggccaaggan cctgccccn g                                     801

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<210> 17
<211> 740
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

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```

<400> 17
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agccaccatg cagtgccttc gcttcattaa gaccatgatg atcctcttca atttgcctcat      180
ctttctgtgt ggtgcagccc tgttggcagt gggcatctgg gtgtcaatcg atggggcatc      240
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taagacggag agcaagtgtg ccctcgtgac gttctctctc atcctcctcc tcatcttcat      420
tgctgaagtt gcagctgctg tggctgcctt ggtgtacacc acaatggctg aaccattcct      480
gacgttgctg gtantgctg ccatcaanaa agattatggg ttcccaggaa aaattcactc      540
aantntggaa caccnccatg aaaagggctc caatttctgn tggcttcccc aactataccg      600
gaattttgaa agantcncct tacttccaaa aaaaaanant tgcttttnc cccnttctgt      660
tgcaatgaaa acntcccaan aongccaatn aaaacctgcc cnnncaaaaa ggntcncaaa      720
caaaaaaant nnaagggttn                                     740

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```

<210> 18
<211> 802
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(802)
<223> n = A,T,C or G

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<400> 18
ccgctgggtt cgctgggtcca gngnagccac gaagcacgtc agcatacaca goctcaatca      60
caaggtcttc cagctgccgc acattacgca gggcaagagc ctccagcaac actgcatatg      120
ggatacactt tacttttagc gccaggggtga caactgagag gtgtcgaagc ttattcttct      180

```

```

gagcctctgt tagtggagga agattccggg cttcagctaa gtagtcagcg tatgtcccat 240
aagcaaacac tgtgagcagc cggaaggtag aggcaaagtc actctcagcc agctctctaa 300
cattgggcat gtccagcagt tctccaaaca cgtagacacc agnggcctcc agcacctgat 360
ggatgagtgt ggccagcgt gcccccttgg ccgacttggc taggagcaga aattgctcct 420
ggttctgccc tgtcaccttc acttccgcac tcatcactgc actgagtgtg ggggacttgg 480
gctcaggatg tccagagacg tggttccgcc ccctcnctta atgacaccgn ccanncaacc 540
gtcggctccc gccgantgng ttcgtcgtnc ctgggtcagg gtctgctggc cnetacttgc 600
aancttcgtc nggcccattg aattcacenc accggaactn gtangatcca ctntttctat 660
aaccggnccg caccgcnntt ggaactccac tctnttnc tttacttgag ggtaaaggtc 720
acccttncg ttaccttggc ccaaaccntn cntgtgtgc anatingtnaa tcnggncna 780
tnccancnc atangaagcc ng 802

```

```

<210> 19
<211> 731
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

```

```

<400> 19
cnaagcttcc aggtnacggg ccgcnaancc tgaccnagg tancanaang cagnncgagg 60
gagccaccg tcacngngng gngtctttat nggagggggc ggagccacat cnetggacnt 120
cntgacccca actcccncc nncantgca gtgatgagt cagaactgaa ggtnacgtgg 180
caggaaccaa gancaaannc tgctccnntc caagtcggcn nagggggcgg ggctggccac 240
gncatccnt cnagtgtgn aaagcccn cctgtctact tgtttggaga acngcnnga 300
catgcccagn gttanataac nggcnagag tnantttgcc tctccctcc ggetgcgan 360
cgngtntgct tagnggacat aacctgacta cttaactgaa ccnngaate tncnccct 420
ccactaagct cagaacaaaa aacttcgaca ccactcantt gtcacctgnc tgctcaagta 480
aagtgtacct catncccaat gtntgctnga ngctctgncc tgcnttangt tcggtcctgg 540
gaagacctat caattnaagc tatgtttctg actgcctctt gctccctgna acaancnacc 600
cnnnntcca agggggggnc ggcccccaat ccccccaacc ntnaattnan tttancccn 660
ccccnggcc cggcctttta cnanctcnn nnacnggna aaaccnnngc tttncccaac 720
nnaatcnc t 731

```

```

<210> 20
<211> 754
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(754)
<223> n = A,T,C or G

```

```

<400> 20
tttttttttt tttttttttt taaaaacccc ctccattnaa tgnaaacttc cgaaattgtc 60
caacccccctc ntccaaatnn cntttccgg gnggggggttc caaacccaan ttanntttgg 120
annttaaat aaatnttntt tggnggnna ancnaatgt nangaaagtt naaccanta 180
tnancttnaa tncctggaaa ccngtngntt caaaaaatnt ttaaccctta antccctccg 240
aaatngttna nggaaaaccc aanttctcnt aaggttgttt gaaggntnaa tnaaaanccc 300
nnccaattgt ttttngccac gcctgaatta attggnntcc gntgttttcc nttaaaanaa 360

```

```

ggnnancccc ggttantnaa tccccccnnc cccaattata ccganttttt ttngaattgg      420
gancccnccg gaattaacgg ggnnmntccc tnttgggggg cnggnncccc ccccntcggg      480
ggttngggnc aggnccnaat tgtttaaggg tccgaaaaat ccctccnaga aaaaaanctc      540
ccaggntgag nntnngggttt nccccccccc cangggccct ctcgnanagt tgggggttgg      600
ggggcctggg attttntttc cccntttnc tccccccccc ccnggganag aggttngngt      660
tttgntcnnc ggcccnccn aaganctttt ccganttnan ttaaattcent gcctnngcga      720
agtccttgn agggntaaan ggccccctnn cggg      754

```

```

<210> 21
<211> 755
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(755)
<223> n = A,T,C or G

```

```

<400> 21
atcancccat gaccccnac nngggaccnc tcanccggnc nnnacnccn cggccnatca      60
nngtnagnnc actncnnttn natcacnccc cncnactac gcccnncnanc cnaecgncta      120
nncanatncc actganngcg cganngngan ngagaaanct nataccanag ncaccanacn      180
ccagctgtcc nanaangcct nnnatacnng nnnatccaat ntgnancctc cnaagtattn      240
nncnncanac gattttcctn anccgattac cctncccccc tancccccctc cccccaaacna      300
cgaaggcnct ggncncaagg nngcgnccnc ccgctagntc cccnncaagt cncnncncta      360
aactcanccn nattaacncc ttcntgagta tcaactcccc aatctcacc tactcaactc      420
aaaaanacn gatacaaaat aatncaagcc tgnttatnac actntgactg ggtctctatt      480
ttagnngtcc ntnaanctc ctaatacttc cagtctncc tcnccaattt ccnaanggct      540
ctttcngaca gcatnttttg gttcccnntt gggttcttan ngaattgcc ttcntngaac      600
gggctcntct ttcccttcgg ttancctggn ttcnccggc cagttattat ttcccntttt      660
aaattcntnc cntttanttt tggcnttcna aacccccggc cttgaaaacg gccccctggt      720
aaaaggttgt tttganaaaa tttttgtttt gttcc      755

```

```

<210> 22
<211> 849
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(849)
<223> n = A,T,C or G

```

```

<400> 22
tttttttttt tttttangtg tngtcgtgca ggtagaggct tactacaant gtgaanacgt      60
acgctnggan taangcgacc cgantttctag gannccncc aaatcanac tgtgaagatn      120
atcctgnnna cggaanggtc accggnggat nntgctaggg tgncnctcc cannncttn      180
cataactcng nggcctgcc caccaccttc ggcgcccnng ngncggggcc cgggtcattn      240
gnnttaacn cactnngcna ncggtttccn nccccnncg acccnggcga tccggggtn      300
tctgtcttcc cctgnagncn anaaantggg ccncggncnc ctttaccct nnacaagcca      360
cngcctteta nccnngccc cccctccant nngggggact gccnanngct ccgttntctg      420
nnaccccnnn gggtnccctg gttgtcgant cnaccgnang ccanggatc cnaaggaagg      480
tgcgtnnttg gccctaccc ttcgctnccg nncacccttc ccgacnanga nccgtccccg      540
cncnncgnng cctnccctg caacaccgc nctcntngt ncggnnnccc ccccaaccgc      600

```

```

nccctcncnc ngncgnanncn ctcncncnc gtctcannca ccaccccgcc ccgccaggcc 660
ntcanccacn ggnngacnng nagnncnntc gncccgcgcn gcgncncctt cgcncncgaa 720
ctnctcngg ccantnncgc tcaanccnna cnaaacgccg ctgcgcggcc cgnagecnc 780
nccctcncga gtccctcccg cttccnacc angnnttcn cgaggacacn nnaccccgcc 840
nncangcgg 849

```

```

<210> 23
<211> 872
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(872)
<223> n = A,T,C or G

```

```

<400> 23
gcgcaaaacta tacttcgctc gnaactcgtgc gcctcgtcnc tcttttcctc cgcaaccatg 60
tctgaacnanc ccgattnggc ngatatcnan aagntcganc agtccaaact gantaacaca 120
cacacnncan aganaaatcc nctgccttcc anagtanacn attgaacnng agaaccangc 180
nggcgaatcg taatnaggcg tgcgcgcgca atntgtcncc gtttatntn ccagctcnc 240
ctnccnacc tacntcttcn nagctgtcnn acccctngtn cgnacccccc naggtcggga 300
tcgggtttnn nntgaccgng cnnccctcc cccctccat nacganccnc ccgcaccacc 360
nanngcncgc ncccggnct cttgcgcc ctgtcctntn cccctgtngc ctggcncngn 420
accgcattga cctcgcgccn ctncnngaaa ncgnanaegt ccgggttggn annancgctg 480
tgggnnngcg tctgcncgc gtccctccn ncnncttcca ccatcttct tacngggtct 540
ccnccgctc tcnncacnc cctgggacgc tntcctntgc ccccttnac tccccccctt 600
cgnctgnc ccnccccacc ntcatttnc nacgntcttc acaannncct ggntnctcc 660
cnancngncn gtcancnag ggaaggngg ggnncnntg nttgacgttg ngngangtc 720
cgaanattcc tcnccntcan cncaccct cgggcgnct ctngttnc aacttancaa 780
ntctccccc ngngcncntc tcagcctcnc cnccccnct ctctgcantg tncctgtc 840
tnaccnntac gantnttcn cncctctt cc 872

```

```

<210> 24
<211> 815
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

```

```

<400> 24
gcatgcaagc ttgagtattc tatagngtca cctaaatanc ttggcntaat catggtcnta 60
nctgncttcc tgtgtcaaata gtatacnaa tanatatgaa tctnatntga caaganngta 120
tctnctatta gtaacaantg tntgtccat cctgtcngan canattccca tnnattncgn 180
cgcatcncn gncantatn taatngggaa ntcnnntnn ncacnncat ctatcnc 240
gnccttgac tggagagat ggatnanttc tntntgacc nacatgttca tcttggttn 300
aanaccccc cgcngnccac cgggtngng cnagcncnt ccaagacct ctgtggagg 360
aacctgcgtc aganncatca aacntgggaa accgcncnc angtnnaagt ngnnncan 420
gateccgtcc aggttnacc atcccttnc agcgccttct ttngtgcctt anagnnagc 480
gtgtccnanc cncatcaat ganacgcgc agncanccg caattnggca caatgtcnc 540
gaaccccta gggggantna tncaaancc caggattgtc cncncangaa atccncanc 600

```



```

ccnccctac ccncttttgg gacngtgacc aantcccga gtnccagtc ggcngnctc 660
ccccaccggt nncntgggg ggggtgaanct cngnntcanc cngncgaggn ntcgnaagga 720
accggncctn ggncgaanng ancnntcnga agngccnct cgtataaccc cccctcncca 780
nccnacngnt agntcccccc cngggtnecg aangg 815

```

```

<210> 25
<211> 775
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

```

```

<400> 25
ccgagatgtc tcgctccgtg gccttagctg tgctcgcgct actctctctt tctggcctgg 60
aggctatcca gcgtactcca aagattcagg ttactcacg tcatccagca gagaatggaa 120
agtcaaattt cctgaattgc tatgtgtctg ggtttcatcc atccgacatt gaanttact 180
tactgaagaa tgganagaga attgaaaaag tggagcatcc agacttgctt ttcagcaagg 240
actggtcttt ctatctctng tactacactg aattcacccc cactgaaaaa gatgagtatg 300
cctgccgtgt gaaccatgtg actttgtcac agcccaagat agttaagtgg gatcgagaca 360
tgtaagcagn cnnatggaa gtttgaagat gccgcatttg gattggatga attccaaatt 420
ctgcttgctt genttttaat antgatatgc ntatacacc taccctttat gncccaaat 480
tgtaggggtt acatnantgt tcnctnnga catgatcttc ctttataant ccnccnttcg 540
aattgcccgt cncncngttn ngaatgtttc cnaaaccacg gttggctccc ccaggtnccc 600
tcttacggaa gggcctgggc cnccttncaa ggttggggga accnaaaatt tcnctntngc 660
ccncccncca cnnctctgng nncncanttt ggaacccttc cnattccctt tggcctcnna 720
nccttnncta anaaaacttn aaanogtngc naaanntttn acttcccccc ttacc 775

```

```

<210> 26
<211> 820
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

```

```

<400> 26
anattantac agtgtaatct tttcccagag gtgtgtanag ggaacggggc ctagaggcat 60
cccanagata ncttatanca acagtgcctt gaccaagagc tgctgggcac atttcctgca 120
gaaaagggtg cggcccccat cactcctcct ctcccatagc catcccagag gggtagtag 180
ccatcangcc ttcggtgagg gggagtcang gaaacaacan accacagagc anacagacca 240
ntgatgacca tgggcgggag cgagcctctt cctgnaccg ggggtggcana nganagccta 300
nctgaggggt cacactataa acgttaacga ccnagatnan cacctgcttc aagtgcaccc 360
ttcctacctg acnaccagng accnnnaact gongcctggg gacagcnctg ggancagcta 420
acnnagcact cacctgcccc cccatggcgg tncgntccc tggctcctgnc aagggaagct 480
ccctgttgga attncgggga naccaaggga nccccctcct ccantgtga aggaaaaann 540
gatggaattt tnccttccg gccnntcccc tcttccttta cagcctccct nntactctc 600
tccctctntt ntctgncnc acttttnacc ccnnnatttc ccttnattga tcggannctn 660
ganattccac tncgcctnc cntcnatng naanacnaaa nactntctna ccnggggat 720
gggnncctcg ntcactctct ctttttctct accnccnntt ctttgctct ccttngatca 780

```

tccaacntc gntggcctn ccccccnnn tcctttcccc

820

<210> 27
 <211> 818
 <212> DNA
 <213> Homo sapien
 <220>
 <221> misc_feature
 <222> (1)...(818)
 <223> n = A,T,C or G

<400> 27
 tctgggtgat ggcctcttcc tcctcagga cctctgactg ctctgggcca aagaatctct 60
 tgtttcttct ccgagcccca ggcagcggg attcagccct gcccaacctg attctgatga 120
 ctgcggtatgc tgtgacggac ccaaggggca aataggggtcc cagggtccag ggagggggcgc 180
 ctgctgagca ctcccgcccc tcaccctgcc cagccctgc catgagctct gggctgggtc 240
 tccgcctcca ggggttctgct ctccangca ngccancaag tggcgtggg ccacactggc 300
 ttcttctgct cccctccctg gctctganc tctgtcttcc tgtcctgtgc angcnccttg 360
 gatctcagtt tccctcctc anngaactct gtttctgann tcttcantta actntgantt 420
 tatnaccnan tggnetgtnc tgtcnaactt taatgggccc gaccggctaa tccctccctc 480
 nctcccttcc anttcnnna accngcttnc cntctctcc cntancccg ccnggggaanc 540
 ctcccttgcc ctnaccangg gccnnnaccg cccntnnctn ggggggcnng gtnnctnnc 600
 ctgntnnccc cctcncnnt tncctcgtcc cnnncnccn nngcannttc nengteccnn 660
 tnnctcttcn ngntcgnaa ngntcncntn tnnnnngncc ngntnntncc tccctctcnc 720
 cnnntgnang tntttnnnnc ncngnncccc nnnncnnnnn nggnntnnn tctnccngc 780
 cccnncccc ngnattaagg cctccnntct ccggccnc 818

<210> 28
 <211> 731
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(731)
 <223> n = A,T,C or G

<400> 28
 aggaagggcg gagggatatt gtangggatt gagggatagg agnataangg gggaggtgtg 60
 tccaacatg anggtgnngt tctcttttga angaggggtg ngtttttann ccnggtgggt 120
 gattnaaccc cattgtatgg agnnaaagg ttttagggat ttttcggctc ttatcagtat 180
 ntanattcct gtnaatcgga aaatnatntt tcnnccngaa aatnttgctc ccatccgnaa 240
 attnctccc ggtagtgcatt nttngggggg cngccangtt tcccaggctg ctanaatcgt 300
 actaaagntt naagtggan tncaaatgaa aacctnncc agagnatccn taccggactg 360
 tnnnttncct tcgcccctng actctgcnn agcccaatac ccnngngnat gtcnccngn 420
 nnnccgncnc tgaaannnnc tcgnggctnn gancatcang gggtttcgca tcaaaagcnn 480
 cgttttncat naaggcactt tngcctcatc caaccnctng cctcnncca tttngccgtc 540
 nggttncct acgctnntng cncctnnntn ganattttnc ccgctnggg naancctcct 600
 gnaatgggta gggnccttnc ttttnaccnn gnggtntact aatcnnctnc acgctnctt 660
 tctnaccccc ccccttttt caatcccanc ggcnaatggg gtctccccnn cgangggggg 720
 nnnccannc c 731

<210> 29

<211> 822
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(822)
 <223> n = A,T,C or G

<400> 29
 actagtcag tgtggtggaa ttccattgtg ttggggncnc ttctatgant antnttagat 60
 cgctcanacc tcacancctc ccnacnangc ctataangaa nannaataga nctgtncnnt 120
 atntntacnc tcatanncct cnnnaccac tccctcttaa ccctactgt gcctatngcn 180
 tnnctantct ntgcgcctn cnanccaccn gtggggcnac cncnngnatt ctcnatctcc 240
 tcnccatntn gcctananta ngtncatacc ctatacctac nccaatgcta nnnctaancn 300
 tccatnantt annntaacta ccaactgacnt ngactttcnc atnanctcct aatttgaatc 360
 tactctgact cccacngcct annnattagc ancntcccc nacnatntct caaccaaadc 420
 ntcaacaacc tatctantct ttcnccaacc nttncctcog atccccnnac aacccccctc 480
 ccaaataccc nccacctgac ncctaaccn caccatcccg gcaagccnan ggncatttan 540
 ccaactggaat cacnatngga naaaaaaac ccnaactctc tancncnnat ctccctaana 600
 aatnctcctn naatttactn ncantnccat caancccaen tgaaacnnaa cccctgtttt 660
 tanatccctt ctttcgaaaa ccnacccttt annncccaac ctttngggcc ccccnctnc 720
 ccnaatgaag gncncccaat cnangaaacg nccntgaaaa ancnaaggcna anannntccg 780
 canatcctat cccttanttn ggggnccctt nccnngggcc cc 822

<210> 30
 <211> 787
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(787)
 <223> n = A,T,C or G

<400> 30
 cggccgcctg ctctggcaca tgccctcctga atggcatcaa aagtgatgga ctgcccattg 60
 ctagagaaga ccttctctcc tactgtcatt atggagccct gcagactgag ggctcccctt 120
 gtctgcagga tttgatgtct gaagtcgtgg agtgtggctt ggagctcctc atctacatna 180
 gctggaagcc ctggagggcc tctctcgcca gcctccccct tctctccacg ctctccangg 240
 acaccagggg ctccaggcag cccattatct ccagnangac atgggtgttc tccacgcgga 300
 cccatggggc ctgnaaggcc aggggtctct ttgacaccat ctctcccgtc ctgcctggca 360
 ggccgtggga tccactantt ctanaacggn cgccaccncg gtgggagctc cagcttttgt 420
 tccnttaat gaaggttaat tgcnegcttg gcgtaatcat nggtcanaac tntttcctgt 480
 gtgaaattgt tnttcccctc ncnatccnc ncnacatacn aacccggaan cataaagtgt 540
 taaagcctgg gggtngcctn nngaataaac tnaactcaat taattgcgtt ggctcatggc 600
 ccgctttccn ttcnngaaaa ctgtentccc ctgcnttntt gaatcggcc ccccccnggg 660
 aaaagcggtt tgcnttttng ggggntcctt ccncttcccc cctcnctaan cccctncgct 720
 cggctcgttnc nggtngcggg gaanggnat nnnctcccnc naagggggng agnnngntat 780
 ccccaaa 822

<210> 31
 <211> 799
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(799)

<223> n = A,T,C or G

<400> 31

tttttttttt	tttttttggc	gatgctactg	tttaattgca	ggaggtggg	gtgtgtgtac	60
catgtaccag	ggctattaga	agcaagaagg	aaggaggag	ggcagagcg	cctgctgagc	120
aacaaaggac	tcctgcagcc	ttctctgtct	gtctcttggc	gcaggcacat	ggggaggcct	180
cccgcagggt	ggggggcacc	agtcacaggg	tgggagcact	acanggggtg	ggagtgggtg	240
gtggctggtn	cnaatggcct	gncacanatc	cctacgattc	ttgacacctg	gatttcacca	300
ggggaccttc	tgttctccca	nggnaacttc	ntnnatctcn	aaagaacaca	actgtttctt	360
cngcanttct	ggctgttcat	ggaaagcaca	ggtgtccnat	ttnggctggg	acttgggtaca	420
tatggttccg	gcccacctct	cccntcnaan	aagtaattca	ccccccccc	ccntctnttg	480
cctgggcect	taantaccca	caccggaact	canttantta	ttcatcttng	gntgggcttg	540
ntnatcnccn	cctgaangcg	ccaagtgtga	aggccacgcc	gtncccnctc	cccatagnan	600
ntttttnct	canctaagtc	cccccnnggc	aacnatccaa	ttccccccc	tgggggcccc	660
agcccanggc	ccccgnetcg	ggnnncnngn	cncgnantcc	ccaggntctc	ccantcngnc	720
ccnnngcncc	cccgcacgca	gaacanaagg	ntngagccnc	cgcannnnnn	nggtnncnac	780
ctgcecccc	ccnncgng					799

<210> 32

<211> 789

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(789)

<223> n = A,T,C or G

<400> 32

tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	tttttttttt	60
ttttnccnag	ggcagggtta	ttgacaacct	cncgggacac	aancaggctg	gggacaggac	120
ggcaacaggc	tcggcgggcg	gcggcgggcg	ccctacctgc	ggtaccaa	ntgcagcctc	180
cgctcccgt	tgatnttct	ctgcagctgc	aggatgcct	aaaacagggc	ctcggcctn	240
ggtgggcacc	ctgggatttn	aatttccacg	ggcacaatgc	ggtcgcancc	cctcaccacc	300
nattaggaat	agtggtnnta	cccnccnccg	ttggcncact	ccccntggaa	accacttntc	360
gcggctccgg	catctgggtc	taaaccttgc	aaacnctggg	gcctctttt	tggttantnt	420
nccngccaca	atcatnactc	agactggcnc	gggctggccc	caaaaaan	ccccaaaacc	480
ggnccatgtc	ttnnccgggt	tgtgcnatn	tncatcacct	cccgggcnca	ncagggncaac	540
ccaaaagtgc	ttngggcccn	caaaaaanct	ccggggggnc	ccagtttcaa	caaagtcac	600
ccccttggcc	cccaaatcct	cccccgntt	netgggtttg	ggaacccacg	cctctnnctt	660
tggngggcaa	gntggntccc	ccttcgggccc	cccgggtggc	ccnctctaa	ngaaaaacncc	720
ntcctnnnca	ccatcccccc	nngnnacgnc	tancaangna	tcctttttt	tanaaacggg	780
ccccccnccg						789

<210> 33

<211> 793

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(793)
 <223> n = A,T,C or G

<400> 33
 gacagaacat gttggatggt ggagcacctt tctatacgac ttacaggaca gcagatgggg 60
 aattcatggc tgttggagca atanaacccc agttctacga gctgctgac aaaggacttg 120
 gactaaagtc tgatgaactt cccaatcaga tgagcatgga tgattggcca gaaatgaana 180
 agaagtttgc agatgtatctt gcaaagaaga cgaaggcaga gtggtgtcaa atctttgacg 240
 gcacagatgc ctgtgtgact ccggttctga cttttgagga ggttggtcat catgatcaca 300
 acaangaacg gggctcgttt atcaccantg aggagcagga cgtgagcccc cgccctgcac 360
 ctctgctggt aaacaccccc gccatccctt ctttcaaaaag ggatocacta cttctagagc 420
 ggncgccacc gcggtggagc tccagctttt gttcccttta gtgagggtta attgcgcgct 480
 tggcgtaatc atggtcatan ctgtttcctg tgtgaaattg ttatccgctc acaattccac 540
 acaacatacg anccggaagc atnaaatttt aaagcctggn ggtngcctaa tgantgaact 600
 nactcacatt aattggcttt gcgctcactg cccgctttcc agtccggaaa acctgtcctt 660
 gccagctgcc nttaatgaat cnggccaccc cccggggaaa aggcngtttg cttnttgggg 720
 cgcncctccc gctttctcgc ttctgaant ccttcccccc ggtctttcgg cttgcggcna 780
 acggtatcna cct 793

<210> 34
 <211> 756
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(756)
 <223> n = A,T,C or G

<400> 34
 gccgcgaccg gcatgtacga gcaactcaag ggcgagtgga accgtaaaaag cccaatctt 60
 ancaagtgcg gggaanagct gggtcgactc aagctagttc ttctggagct caacttcttg 120
 ccaaccacag ggaccaagct gaccaaacag cagctaattc tggcccgta catactggag 180
 atcgggggccc aatggagcat cctacgcaan gacatcccct ccttcgagcg ctacatggcc 240
 cagctcaaatt gctactactt tgattacaan gagcagctcc ccgagtcagc ctatatgcac 300
 cagctcttgg gcctcaacct cctcttcctg ctgtcccaga accgggtggc tgantnccac 360
 acgganttg ancggtgcc tgcccanga catacanacc aatgtctaca tcnaccacca 420
 gtgtcctgga gcaatactga tgganggcag ctaccncaaa gtnttcctgg ccnagggtaa 480
 catccccgcg cgagagctac accttcttca ttgacatcct gtcgacact atcagggatg 540
 aaaatcgcn ggttgctcca gaaaggetnc aanaanatcc ttttcnctga aggccccgg 600
 atnncntagt nctagaatcg gcccgccatc gcggtgganc ctccaacctt tcgttnccct 660
 ttactgaggg ttattgccc ccttggcgt tatcatggtc acncngttn cctgtgttga 720
 aattnttaac cccccacaat tccacgcna cattng 756

<210> 35
 <211> 834
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(834)

<223> n = A,T,C or G

<400> 35

ggggatctct	anatchnacct	gnatgcatgg	ttgtcgggtgt	ggtcgctgtc	gatgaanatg	60
aacaggatct	tgcccttgaa	gctctcggct	gctgtnttta	agttgctcag	tctgccgtca	120
tagtcagaca	cnetcttggg	caaaaaacan	caggatntga	gtcttgattt	cacctccaat	180
aatcttcngg	gctgtctgct	cggatgaactc	gatgaacnang	ggcagctggg	tgtgtntgat	240
aaantccanc	angttctcct	tggatgaactc	cccttcaaag	ttgttcggc	cttcatcaaa	300
cttctnnaan	angannancc	canctttgtc	gagctggnat	ttgganaaca	cgctactgtt	360
ggaaactgat	cccaaattgg	atgtcatcca	tgcctctgtc	tgcctgcaaa	aaacttgctt	420
ggcncaaate	cgactcccn	tccttgaaag	aagccnatca	cacccccctc	cctggactcc	480
nncaangact	ctnccgctnc	cccctccnng	cagggttggg	ggcannccgg	gcccctgcgc	540
ttcttcagcc	agttcacnat	nttcatcagc	ccctctgcc	gctgtntat	tccttggggg	600
ggaanccgtc	tctcccttcc	tgaannaaact	ttgaccgtng	gaatagccgc	gcntcncnt	660
acntnctggg	cggggttcaa	antccctccn	ttgncnntcn	cctcgggcca	ttctggattt	720
nccnaacttt	ttccttcccc	cncnccnccg	ngtttggnnt	tttcatnggg	ccccaactct	780
gctnttggcc	antccctggg	gggcntntan	cncnccctnt	ggtcccntng	ggcc	834

<210> 36

<211> 814

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(814)

<223> n = A,T,C or G

<400> 36

cggncgcttt	cnngccgcgc	cccggtttcca	tgacnaaggc	tccttccang	ttaaatacnn	60
cctagnaaac	attaatgggt	tgtctacta	atacatcata	cnaaccagta	agcctgcca	120
naacgccaac	tcaggccatt	cctaccaaag	gaagaaaggc	tggtctctcc	acccctgta	180
ggaaaggcct	gccttgtaag	acaccacaat	ncggctgaat	ctnaagtctt	gtgttttact	240
aatggaaaaa	aaaaataaac	aanagggttt	gttctcatgg	ctgcccaccg	cagcctggca	300
ctaaaacanc	ccagcgtca	cttctgcttg	ganaaatatt	ctttgctctt	ttggacatca	360
ggcttgatgg	tatcactgcc	acntttccac	ccagctgggc	ncccttcccc	catntttgtc	420
antganctgg	aaggcctgaa	ncttagtctc	caaaagtctc	ngcccacaag	accggccacc	480
aggggangtc	ntttncagtg	gatctgcca	anantaccn	tatcatcnnt	gaataaaaag	540
gcccctgaac	ganatgcttc	cancanocct	taagacccat	aatcctngaa	ccatggtgcc	600
cttccggctc	gatccnaaag	gaatgttcc	gggtcccant	ccctcctttg	ttnccttacgt	660
tgtnttggac	centgctngn	atnacccaan	tganatcccc	ngaagcacc	tncccctggc	720
atgtganntt	cntaaattct	ctgccctacn	netgaaagca	cnattccctn	ggcnccnaan	780
gngnaactca	agaaggctcn	ngaaaaacca	cncn			814

<210> 37

<211> 760

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(760)

<223> n = A,T,C or G

```

<400> 37
gcatgctgct cttcctcaaa gttgttcttg ttgccataac aaccaccata ggtaaagcgg      60
gcgcagtgtt cgctgaaggg gttgtagtac cagcgcggga tgctctcctt gcagagtcct      120
gtgtctggca ggtccacgca atgccctttg tcaactggga aatggatgcg ctggagctcg      180
tcnaanccac tcgtgtatatt ttacangca gctcctccg aagctccgg gcagttgggg      240
gtgtcgtcac actccactaa actgtcgatn cancagccca ttgctgcagc ggaactgggt      300
gggctgacag gtgccagaac acaactggatn ggcctttcca tggaagggcc tgggggaaat      360
cncctnancc caaactgcct ctcaaaggcc accttgacac ccccgacagg ctagaaatgc      420
actcttcttc ccaaaggtag ttgttcttgt tgcccaagca ncctccanca aaccaaaanc      480
ttgcaaaatc tgctccgtgg gggtcatnnn taccanggtt ggggaaanaa acccgcnngn      540
gancncctt gtttgaatgc naaggnaata atoctcctgt cttgcttggg tggaanagca      600
caattgaact gttaacnttg ggcgngttc cncnnggtg gtctgaaact aatcaccgtc      660
actggaaaaa ggtagtgcc ttcttgaat tcccaaannt cccctngntt tgggtntttt      720
ctcctctncc ctaaaaatcg tnttcccccc ccntangggc      760

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<210> 38
<211> 724
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(724)
<223> n = A,T,C or G

```

```

<400> 38
tttttttttt tttttttttt tttttttttt tttttaaaaa cccctcccat tgaatgaaaa      60
cttcnnaaat tgtccaaccc cctcnccaa atnnccattt cggggggggg gttccaaacc      120
caaattaatt ttgganttta aattaaatnt tnattngggg aanaanccaa atgtnaagaa      180
aatttaaccc attatnaact taaatncctn gaaaccntg gnttccaaaa atttttaacc      240
cttaaatccc tccgaaattg ntaanggaaa accaaattcn cctaaggctn tttgaagggt      300
ngatttaaac ccccttnant tnttttnacc cnnngctnaa ntatttngnt tccggtgttt      360
tcctnttaan cntnggtaac tcccgntaat gaannncctt aanccaatta aaccgaattt      420
tttttgaatt ggaaattccn ngggaattna cgggggtttt tcccntttgg gggccatncc      480
ccncttttcg ggggttgggn ntaggttgaa tttttnnang nccccaaaaa ncccccaana      540
aaaaaactcc caagnnttaa ttngaanttc ccccttccca ggccttttgg gaaaggnggg      600
ttnttggggg ccngggantt cnttcccccn ttncncccc ccccccnggt aaanggttat      660
ngnntttggt ttttgggccc cttnanggac cttccggatn gaaattaaat ccccggnccg      720
gccg      724

```

```

<210> 39
<211> 751
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(751)
<223> n = A,T,C or G

```

```

<400> 39
tttttttttt tttttctttg ctcacattta atttttatnt tgattttttt taatgctgca      60
caacacaata tttatttcat ttgtttcttt tatttcattt tatttgtttg ctgctgctgt      120
tttatttatt ttactgaaa gtgagaggga acttttgtgg ctttttttcc tttttctgta      180

```

```

ggccgcctta agctttctaa atttgaaca tctaagcaag ctgaanggaa aaggggggtt 240
cgcaaaatca ctggggggaa nggaaagggt gctttgttaa tcatgcccta tgggtgggtga 300
ttaactgctt gtacaattac ntttcacttt taattaattg tgctnaangc ttttaattana 360
cttggggggtt cctcccccac accaaccnccn ctgacaaaaa gtgccngccc tcaaattatg 420
tcccggcnnt cnttgaaaca cacngcngaa ngttctcatt ntcccnccn caggtnaaaa 480
tgaagggtta ccatntttta cncacactcc acntggcnnn gcctgaatcc tcnaaaancn 540
ccctcaancn aattnctnng ccccggtcnc gentnngtcc cncgggggt cgggaantn 600
cacccccnga anncnntnnc naacnaaatt cggaaaatat tcccnntcnc tcaattcccc 660
cnnagactnt cctcnncnan cncaattttc ttttnntcac gaacncgnnc cnaaaaatgn 720
nnnncnctc cnetngtccn naatcnccan c 751

```

```

<210> 40
<211> 753
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(753)
<223> n = A,T,C or G

```

```

<400> 40
gtgggtatttt ctgtaagatc aggtgttcct ccctcgtagg tttagaggaa acaccctcat 60
agatgaaaac ccccccgaga cagcagcact gcaactgcc aagcagccggg gtaggagggg 120
cgccctatgc acagctgggc ctttgagaca gcagggttc gatgtcaggc tcgatgtcaa 180
tggtctggaa gggcgggctg tacctgcgta ggggcacacc gtcaggggccc accaggaact 240
tctcaaagtt ccaggcaacn tcgttgcgac acaccggaga ccagggtgatn agcttgggggt 300
cggtcataan cgcggtggcg tcgtcgctgg gagctggcag ggcctccgc aggaaggcna 360
ataaaagggt cgcccccgca cgttcancn cgcacttctc naanaccatg angttgggct 420
cnaaccaccc accannccgg acttccttga nggaattccc aaatctcttc gntcttgggc 480
ttctnctgat gccctanctg gttgccnngn atgccaanca nccccaancc cgggggtcct 540
aaanccaccc cctcctcntt tcatctgggt tntntcccc ggacntggg tctctcaag 600
ggancccata tctcnaccan tactcacnt nccccccnt gnnaccanc cttctanngn 660
ttccnccccg nctctgggc cntcaanan gcttnacna cctgggtctg ccttcccccc 720
tnccctatct gnaccccnen tttgtctcan tnt 753

```

```

<210> 41
<211> 341
<212> DNA
<213> Homo sapien

```

```

<400> 41
actatatcca tcacaacaga catgcttcat cccatagact tcttgacata gcttcaaagt 60
agtgaaccca tccttgatit atatacatat atgttctcag tattttggga gcctttccac 120
ttcttttaac cttgttcatt atgaacactg aaaataggaa tttgtgaaga gttaaaaagt 180
tatagcttgt ttacgtagta agtttttgaa gtctacattc aatccagaca cttagttag 240
tggttaaactg tgatttttaa aaaatatcat ttgagaatat tctttcagag gtattttcat 300
ttttactttt tgattaattg tgttttatat attagggtag t 341

```

```

<210> 42
<211> 101
<212> DNA
<213> Homo sapien

```


<400> 42
 acttactgaa tttagttctg tgctcttcct tatttagtgt tgtatcataa atactttgat 60
 gtttcaaaca ttctaaataa ataattttca gtggcttcat a 101

<210> 43
 <211> 305
 <212> DNA
 <213> Homo sapien

<400> 43
 acatctttgt tacagtctaa gatgtgttct taaatcacca ttccttcctg gtcctcaccc 60
 tccaggggtg tctcacactg taattagagc tattgaggag tctttacagc aaattaagat 120
 tcagatgcct tgctaagtct agagttctag agttatgttt cagaaagtct aagaaaccca 180
 cctcttgaga ggtcagtaaa gaggacttaa tatttcatat ctacaaaatg accacaggat 240
 tggatacaga acgagagtta tcctggataa ctcagagctg agtacctgcc cgggggccgc 300
 tcgaa 305

<210> 44
 <211> 852
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(852)
 <223> n = A,T,C or G

<400> 44
 acataaatat cagagaaaag tagtctttga aatattttacg tccaggagtt ctttgtttct 60
 gattatttgg tgtgtgtttt ggtttgtgtc caaagtattg gcagcttcag ttttcatttt 120
 ctctccatcc tcgggcattc ttcccaaatt tatataccag tcttcgtcca tccacacgct 180
 ccagaatttc tctttttagt taatatctca tagctcggct gagcttttca taggtcatgc 240
 tgctgttggt cttcttttta ccccatagct gagccactgc ctctgatttc aagaacctga 300
 agacgccctc agatcgggtct tcccatttta ttaatcctgg gttcttgtct gggttcaaga 360
 ggatgtcgcg gatgaattcc cataagttag tccctctcgg gttgtgcttt ttgggtgtggc 420
 acttggcagg ggggtcttgc tcctttttca tatcagggtga ctctgcaaca ggaaggtgac 480
 tggtggttgt catggagatc tgagcccggc agaaagtttt gctgtccaac aaatctactg 540
 tgctaccata gttggtgtca tataaatagt tctngtcttt ccagggtgtc atgatggaag 600
 gctcagtttg ttcagtcctg acaatgacat tgtgtgtgga ctggaacagg tcaactactgc 660
 actggccgtt ccacttcaga tgctgcaagt tgctgtagag gagntgcccc gccgtccctg 720
 ccgcccgggt gaactcctgc aaactcatgc tgcaaagggt ctcgccgttg atgtcgaact 780
 cntggaaagg gatacaattg gcatccagct ggttggtgtc caggaggtga tggagccact 840
 cccacacctg gt 852

<210> 45
 <211> 234
 <212> DNA
 <213> Homo sapien

<400> 45
 acaacagacc cttgctcgtc aacgacctca tgctcatcaa gttggacgaa tccgtgtccg 60
 agtctgacac catccggagc atcagcattg ctctgcagtg ccctaccgcg gggaaactctt 120
 gcctcgtttc tggctggggt ctgctggcga acggcagaat gcctaccgtg ctgcagtgcg 180
 tgaacgtgtc ggtggtgtct gaggaggtct gcagtaagct ctatgaccgc ctgt 234

<210> 46
 <211> 590
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(590)
 <223> n = A,T,C or G

<400> 46
 acttttttatt taaatgttta taaggcagat ctatgagaat gatagaaaac atgggtgtgta 60
 atttgatagc aatatttttg agattacaga gtttttagtaa ttaccaatta cacagttaaa 120
 aagaagataa tatattccaa gcanatacaa aatatctaata gaaagatcaa ggcaggaaaa 180
 tgantataac taattgacaa tggaaaatca attttaatgt gaattgcaca ttatccttta 240
 aaagctttca aaanaaanaa ttattgcagt ctanttaatt caaacagtgt taaatgggtat 300
 caggataaan aactgaaggg canaaagaat taattttcac ttcattgtaac ncacccanat 360
 ttacaatggc ttaaattgcan ggaaaaagca gtggaagtag ggaagtantc aagggtctttc 420
 tgggtctctaa tctgccttac tctttgggtg tggctttgat cctctggaga cagctgccag 480
 ggctcctggt atattccacaa tcccagcagc aagatgaagg gatgaaaaag gacacatgct 540
 gccttccttt gaggagactt catctcactg gccaacactc agtcacatgt 590

<210> 47
 <211> 774
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(774)
 <223> n = A,T,C or G

<400> 47
 acaagggggc ataatgaagg agtgggggana gatttttaaag aaggaaaaaa aacgaggccc 60
 tgaacagaat tttcctgnac aacgggggctt caaaataatt ttcttgggga ggttcaagac 120
 gcttcactgc ttgaaactta aatggatgtg ggacanaatt ttctgtaatg accctgaggg 180
 cattacagac gggactcttg gaggaaggat aaacagaaaag gggacaaaag ctaatcccaa 240
 aacatcaaag aaaggaagggt ggogtcatac ctcccagcct acacagttct ccagggtctt 300
 cctcatccct ggaggacgac agtggaggaa caactgacca tgtcccagg ctctgtgtgtg 360
 ctggctcctg gtcttcagcc cccagctctg gaagcccacc ctctgtgtat cctgcgtggc 420
 ccacactcct tgaacacaca tcccaggtt atattcctgg acatggctga acctcctatt 480
 cctacttcog agatgccttg ctccctgcag cctgtcaaaa tcccactcac cctccaaacc 540
 acggcatggg aagcctttct gacttgcttg attactccag catcttgga caatccctga 600
 ttcccactc cttagaggca agataggggtg gttaagagta gggctggacc acttgagacc 660
 aggctgctgg cttcaaattt tggtcattt acgagctatg ggaccttggg caagtnatct 720
 tcacttctat gggentcatt ttgttctacc tgcaaaatgg gggataataa tagt 774

<210> 48
 <211> 124
 <212> DNA
 <213> Homo sapien

<220>

```

<221> misc_feature
<222> (1)...(124)
<223> n = A,T,C or G

<400> 48
canaaattga aattttataa aaaggcattt ttctottata tccataaaat gatataattt      60
ttgcaantat anaaatgtgt cataaattat aatgttcott aattacagct caacgcaact      120
tggt                                           124

<210> 49
<211> 147
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(147)
<223> n = A,T,C or G

<400> 49
gccgatgcta ctattttatt gcaggagggt ggggtgtttt tattattctc tcaacagctt      60
tgtggctaca ggtgggtgtct gactgcatna aaaanttttt tacgggtgat tgcaaaaatt      120
ttagggcacc catatcccaa gcantgt                                           147

<210> 50
<211> 107
<212> DNA
<213> Homo sapien

<400> 50
acattaaatt aataaaaagga ctgttgggggt tctgctaaaa cacatggctt gatatatattgc      60
atggtttgag gttaggagga gttaggcata tgttttggga gaggggt                                           107

<210> 51
<211> 204
<212> DNA
<213> Homo sapien

<400> 51
gtcctaggaa gtctagggga cacacgactc tggggtcacg gggccgacac acttgcacgg      60
cggaaggaa aggcagagaa gtgacaccgt cagggggaaa tgacagaaag gaaaatcaag      120
gccttgcaag gtcagaaagg ggactcaggg cttccaccac agccctgcc cacttgcca      180
cctccctttt ggaccagca atgt                                           204

<210> 52
<211> 491
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(491)
<223> n = A,T,C or G

```

<400> 52

acaaagataa	catttatctt	ataacaaaaa	tttgatagtt	ttaaaggtta	gtattgtgta	60
gggtattttc	caaaagacta	aagagataac	tcaggtaaaa	agttagaaat	gtataaaaaca	120
ccatcagaca	ggttttttaa	aaacaacata	ttacaaaatt	agacaatcat	ccttaaaaaa	180
aaaacttctt	gtatcaattt	cttttgttca	aaatgactga	cttaantatt	tttaaataatt	240
tcanaaacac	ttcctcaaaa	attttcaana	tggtagcttt	canatgtnc	ctcagtccca	300
atgttgctca	gataaataaa	tctcgtgaga	acttaccacc	caccacaagc	tttctggggc	360
atgcaacagt	gtcttttctt	tnctttttct	tttttttttt	ttacaggcac	agaaactcat	420
caattttatt	tggataacaa	agggtctcca	aatttatattg	aaaaataaat	ccaagttaat	480
atcactcttg	t					491

<210> 53

<211> 484

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(484)

<223> n = A,T,C or G

<400> 53

acataattta	gcagggctaa	ttaccataag	atgctattta	ttaanaggtn	tatgatctga	60
gtattaacag	ttgctgaagt	ttggattttt	tatgcagcat	tttctttttg	ctttgataac	120
actacagaac	ccttaaggac	actgaaaatt	agtaagtaaa	gttcagaaac	attagctgct	180
caatcaaate	totacataac	actatagtaa	ttaaaacggt	aaaaaaaaag	gttgaaatct	240
gcactagtat	anaccgctcc	tgtcaggata	anactgcttt	ggaacagaaa	gggaaaaanc	300
agctttgant	ttctttgtgc	tgatangagg	aaaggctgaa	ttaccttggt	gcctctccct	360
aatgattggc	aggctcnggt	aatnccaaaa	catattccaa	ctcaaacactt	cttttccncc	420
tanccttgant	ctgtgtattc	caggancagg	cggatggaat	gggccagccc	ncggatgttc	480
cant						484

<210> 54

<211> 151

<212> DNA

<213> Homo sapien

<400> 54

actaaacctc	gtgcttggtg	actccataca	gaaaacgggtg	ccatccctga	acacggctgg	60
ccactgggta	tactgctgac	aaccgcaaca	acaaaaacac	aaatccttgg	cactggctag	120
tctatgtcct	ctcaagtgcc	tttttgtttg	t			151

<210> 55

<211> 91

<212> DNA

<213> Homo sapien

<400> 55

acctggcttg	tctccgggtg	gttcccggcg	ccccccacgg	tccccagAAC	ggacactttc	60
gccctccagt	ggatactcga	gccaaagtgg	t			91

<210> 56

<211> 133

<212> DNA

<213> Homo sapien

<400> 56

```
ggcggatgtg cgttggttat atacaaatat gtcattttat gtaagggact tgagtatact 60
tggatttttg gtatctgtgg gttgggggga cgggccagga accaatacc catggatacc 120
aagggacaac tgt 133
```

<210> 57

<211> 147

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(147)

<223> n = A,T,C or G

<400> 57

```
actctggaga acctgagccg ctgctccgcc tctgggatga ggtgatgcan gcngtggcgc 60
gactgggagc tgagcccttc cctttgcgcc tgcctcagag gattgttgcc gacntgcana 120
tctcantggg ctggatncat gcagggt 147
```

<210> 58

<211> 198

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(198)

<223> n = A,T,C or G

<400> 58

```
acagggatat aggtttnaag ttattgtnat tgtaaaatac attgaatttt ctgtatactc 60
tgattacata catttatcct ttaaaaaaga tgtaaatctt aatttttatg ccatctatta 120
attaccaat gagttacctt gtaaatgaga agtcatgata gactgaatt ttaactagtt 180
ttgacttcta agtttggt 198
```

<210> 59

<211> 330

<212> DNA

<213> Homo sapien

<400> 59

```
acaacaaatg ggttgtagg aagtcttata agcaaaactg gtgatggcta ctgaaaagat 60
ccattgaaaa ttatcattaa tgatttttaa tgacaagtta tcaaaaactc actcaatttt 120
cacctgtgct agcttgctaa aatgggagtt aactctagag caaatatagt atcttctgaa 180
tacagtcaat aaatgacaaa gccagggcct acaggtgggt tccagacttt ccagaccag 240
cagaaggaat ctattttatc acatggatct ccgctctgtgc tcaaaatacc taatgatatt 300
tttcgtcttt attggacttc tttgaagagt 330
```

<210> 60

<211> 175

<212> DNA

<213> Homo sapien

<400> 60

```
accgtgggtg ccttctacat tcttgacggc tccttcacca acatctggtt ctacttcggc 60
gtcgtgggtt ccttcctctt catctcctc cagctgggtg tgctcatcga ctttgcgcac 120
tcctggaacc agcgtgggtt gggcaaggcc gaggagtgcg attcccgtgc ctggt 175
```

<210> 61

<211> 154

<212> DNA

<213> Homo sapien

<400> 61

```
acccactttt tctcctgtg agcagtcttg acttctcact gctacatgat gaggtgagt 60
ggttggttgc cttcaacagt atcctccctt ttcoggatct gctgagccgg acagcagtgc 120
tggaactgcac agccccgggg ctccacattg ctgt 154
```

<210> 62

<211> 30

<212> DNA

<213> Homo sapien

<400> 62

```
cgctcgagcc ctatagttag tcgtattaga 30
```

<210> 63

<211> 89

<212> DNA

<213> Homo sapien

<400> 63

```
acaagtcatt tcagcaccct ttgctcttca aaactgacca tcttttatat ttaatgcttc 60
ctgtatgaat aaaaatgggt atgtcaagt 89
```

<210> 64

<211> 97

<212> DNA

<213> Homo sapien

<400> 64

```
accggagtaa ctgagtcggg acgctgaatc tgaatccacc aataaataaa gggtctgcag 60
aatcagtgc tccaggattg gtccttggat ctgggggt 97
```

<210> 65

<211> 377

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(377)

<223> n = A,T,C or G

<400> 65

```

acaacaanaa ntcccttctt taggccaactg atggaaacct ggaaccccct tttgatggca      60
gcatggcgctc ctaggccttg acacagcggc tggggtttgg gctntcccaa accgcacacc      120
ccaaccctgg tctaccaca nttctggcta tgggctgtct ctgccactga acatcaggg      180
tcggtcataa natgaaatcc caanggggac agaggtcagt agaggaagct caatgagaaa      240
ggtgctgttt gctcagccag aaaacagctg cctggcattc gccgctgaac tatgaaccgc      300
tgggggtgaa ctaccccan gaggaatcat gcctgggcga tgcaanggtg ccaacaggag      360
gggcgggagg agcatgt                                     377

```

```

<210> 66
<211> 305
<212> DNA
<213> Homo sapien

```

```

<400> 66
acgcctttcc ctcagaattc agggaagaga ctgtcgctg ccttcctcgc ttgttgctg      60
agaaccogtg tgcccttcc caccatatcc accctcgctc catctttgaa ctcaaacacg      120
aggaactaac tgcacctgg tcctctcccc agtccccagt tcacctcca tccctcacct      180
tcctccactc taagggatat caacactgcc cagcacaggg gccctgaatt tatgtgggtt      240
ttatatattt ttttaataaga tgcactttat gtcatttttt aataaagtct gaagaattac      300
tggtt                                     305

```

```

<210> 67
<211> 385
<212> DNA
<213> Homo sapien

```

```

<400> 67
actacacaca ctccacttgc ccttgtgaga cactttgtcc cagcacttta ggaatgctga      60
ggtcggacca gccacatctc atgtgcaaga ttgccagca gacatcaggt ctgagagttc      120
cccttttaaa aaaggggact tgcttaaaaa agaagtctag ccacgattgt gtagagcagc      180
tgtgctgtgc tggagattca cttttgagag agttctcctc tgagacctga tctttagagg      240
ctgggcagtc ttgcacatga gatggggctg gtctgatctc agcactcctt agtctgcttg      300
cctctcccag ggccccagcc tggccacacc tgcttacagg gcactctcag atgcccatac      360
catagtttct gtgctagtgg accgt                                     385

```

```

<210> 68
<211> 73
<212> DNA
<213> Homo sapien

```

```

<400> 68
acttaaccag atatattttt accccagatg gggatattct ttgtaaaaaa tgaaaataaa      60
gtttttttta tgg                                     73

```

```

<210> 69
<211> 536
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(536)
<223> n = A,T,C or G

```

<400> 69
 actagtccag tgtggtggaa ttccattgtg ttgggggctc tcaccctcct ctccctgcagc 60
 tccagctttg tgctctgcct ctgaggagac catggcccag catctgagta ccctgctgct 120
 cctgctggcc accctagctg tggccctggc ctggagcccc aaggaggagg ataggataat 180
 cccgggtggc atctataacg cagacctcaa tgatgagtgg gtacagcgtg cccttcactt 240
 cgccatcagc gagtataaca aggccaccaa agatgactac tacagacgtc cgctgcgggt 300
 actaagagcc aggcaacaga ccgttggggg ggtgaattac ttcttcgacg tagagggtgg 360
 ccgaaccata tgtaccaagt ccagcccaa ctgggacacc tgtgccttcc atgaacagcc 420
 agaactgcag aagaaacagt tgtgctcttt cgagatctac gaagtccct ggggagaaca 480
 gaangtcctt gggtgaaatc caggtgtcaa gaaatcctan ggatctgttg ccaggc 536

<210> 70
 <211> 477
 <212> DNA
 <213> Homo sapien

<400> 70
 atgacccta acagggggccc tctcagccct cctaattgacc tccggcctag ccatgtgatt 60
 tcaattccac tccataacgc tctcatact aggctacta accaaccacac taaccatata 120
 ccaatgatgg cgcgatgtaa cagcagaaag cacataccaa ggccaccaca caccacctgt 180
 ccaaaaaggc cttcgatacg ggataatcct atttattacc tcagaagttt ttttcttcgc 240
 agggattttt ctgagccttt taccactcca gctagcccc tccccccaa ctaggagggc 300
 actggccccc aacaggcatc accccgctaa atcccctaga agtcccactc ctaaaccacat 360
 ccgtattact cgcattcagga gtatcaatca cctgagctca ccatagtcta atagaaaaca 420
 accgaaacca aattattcaa agcactgctt attacaattt tactgggtct ctatttt 477

<210> 71
 <211> 533
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(533)
 <223> n = A,T,C or G

<400> 71
 agagctatag gtacagtgtg atctcagctt tgcaaacaca ttttctacat agatagtact 60
 aggtattaat agatatgtaa agaaagaaat cacaccatta ataatggtaa gattggttta 120
 tgtgatttta gtggtatttt tggcaccctt atatatgttt tccaaacttt cagcagtgat 180
 attatttcca taacttaaaa agtgagtttg aaaaagaaaa tctccagcaa gcatctcatt 240
 taaataaagg tttgtcatct ttaaaaatac agcaatatgt gactttttta aaaagctgtc 300
 aaataggtgt gaccctacta ataattatta gaaatacatt taaaaacatc gagtacctca 360
 agtcagtttg ccttgaaaaa tatcaaatat aactcttaga gaaatgtaca taaaagaatg 420
 cttcgtaatt ttggagtang aggttccctc ctcaattttg tattttttaa aagtacatgg 480
 taaaaaaaaa aattcacaaac agtatataag gctgtaaaat gaagaattct gcc 533

<210> 72
 <211> 511
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<222> (1)...(511)

<223> n = A,T,C or G

<400> 72

tattacggaa	aaacacacca	cataattcaa	ctancaaaga	anactgcttc	agggcggtgta	60
aaatgaaagg	cttccaggca	gttatctgat	taaagaacac	taaaagaggg	acaaggctaa	120
aagccgcagg	atgtctacac	tatancaggc	gctatttggg	ttggctggag	gagctgtgga	180
aaacatggan	agattgggtgc	tgganatcgc	cgtggctatt	cctcattgtt	attacanagt	240
gaggttctct	gtgtgcccac	tggtttgaaa	accgttctnc	aataatgata	gaatagtaca	300
cacatgagaa	ctgaaatggc	ccaaacccag	aaagaaagcc	caactagatc	ctcagaanac	360
gcttctaggg	acaataaccg	atgaagaaaa	gatggcctcc	ttgtgcccc	gtctgttatg	420
atttctctcc	attgcagcna	naaacccgtt	cttctaagca	aacncagggtg	atgatggcna	480
aaatacaccc	cctcttgaag	naccnggagg	a			511

<210> 73

<211> 499

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(499)

<223> n = A,T,C or G

<400> 73

cagtgccagc	actggtgcc	gtaccagtac	caataacagt	gccagtgcc	gtgccagcac	60
cagtgggtggc	ttcagtgctg	gtgccagcct	gaccgccact	ctcacatttg	ggctcttcgc	120
tggccttggg	ggagctgggtg	ccagcaccag	tggcagctct	ggtgctgtg	gtttctccta	180
caagtgaat	tttagatatt	gttaatcctg	ccagtctttc	tcttcaagcc	aggggtgcac	240
ctcagaaacc	tactcaacac	agcactctag	gcagccacta	tcaatcaatt	gaagttgaca	300
ctctgcatta	aatctatttg	ccatttctga	aaaaaaaaaa	aaaaaaagg	cggccgctcg	360
antctagagg	gcccgtttta	acccgctgat	cagcctcgac	tgtgccttct	anttgccagc	420
catctgttgt	ttgcccctcc	cccgntgcct	tccttgacct	tggaaagtgc	cactcccact	480
gtcctttcct	aantaaaat					499

<210> 74

<211> 537

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(537)

<223> n = A,T,C or G

<400> 74

tttcatagga	gaacacactg	aggagatact	tgaagaattt	ggattcagcc	gcgaagagat	60
ttatcagctt	aactcagata	aaatcattga	aagtaataag	gtaaaagcta	gtctctaact	120
tccaggccca	cggctcaagt	gaatttgaat	actgcattta	cagtgtagag	taacacataa	180
cattgtatgc	atggaaacat	ggaggaacag	tattacagtg	tcctaccact	ctaatacaaga	240
aaagaattac	agactctgat	tctacagtga	tgattgaatt	ctaaaaatgg	taatcattag	300
ggcttttgat	ttataaanact	ttgggtactt	atactaaatt	atggtagtta	tactgccttc	360
cagtttgctt	gatataattg	ttgatattaa	gattccttgac	ttatattttg	aatgggttct	420
actgaaaaan	gaatgatata	ttcttgaaga	catcgatata	catttattta	cactcttgat	480

tctacaatgt agaaaatgaa ggaaatgccc caaattgtat ggtgataaaa gtcccgt 537

<210> 75
 <211> 467
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(467)
 <223> n = A,T,C or G

<400> 75
 caaanacaat tgttcaaaaag atgcaaatga tacactactg ctgcagctca caaacacctc 60
 tgcatattac acgtacctcc tctgtctcct caagtagtgt ggtctatatt gccatcatca 120
 cctgtgtgtc gcttagaaga acggctttct gctgcaangg agagaaatca taacagacgg 180
 tggcacaagg aggccatctt ttctcatcgc gttattgtcc ctagaagcgt cttctgagga 240
 tctagtggg ctttctttct gggtttgggc catttcantt ctcatgtgtg tactattcta 300
 tcattattgt ataacggttt tcaaaccngt gggcacncag agaacctcac tctgtaataa 360
 caatgaggaa tagccacggg gatctccagc accaaatctc tccatgttnt tccagagctc 420
 ctccagccaa cccaaatagc cgctgctatn gtgtagaaca tccctgn 467

<210> 76
 <211> 400
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(400)
 <223> n = A,T,C or G

<400> 76
 aagctgacag cattcggggc gagatgtctc gctccgtggc cttagctgtg ctgcgcgtac 60
 tctctctttc tggcctggag gctatccagc gtactccaaa gattcagggt tactcacgtc 120
 atccagcaga gaatggaaag tcaaatttcc tgaattgcta tgtgtctggg ttcatccat 180
 ccgacattga agttgactta ctgaagaatg gagagagaat tgaaaaagtg gagcattcag 240
 acttgtcttt cagcaaggac tggcttttct atctcttgta ctacactgaa ttcaccccc 300
 ctgaaaaaga tgagtatgcc tgccgtgtga accatgtgac tttgtcacag cccaagatng 360
 ttnagtggga tcganacatg taagcagcan catgggaggt 400

<210> 77
 <211> 248
 <212> DNA
 <213> Homo sapien

<400> 77
 ctggagtgcc ttggtgtttc aagccctgc aggaagcaga atgcacctc tgaggcacct 60
 ccagctgccc cggcggggga tgcgaggctc ggagcacctc tgcccggtg tgattgctgc 120
 caggcactgt tcatctcagc ttttctgtcc ctttgcctcc ggcaagcgt tctgtgaaa 180
 gttcataatc ggagcctgat gtcttaacga ataaaggtcc catgctccac ccgaaaaaaa 240
 aaaaaaaa 248

<210> 78

<211> 201
 <212> DNA
 <213> Homo sapien

<400> 78
 actagtccag tgtggtggaa ttccattgtg ttgggcccac cacaatggct acctttaaca 60
 tcacccagac cccgccctgc ccgtgcccac cgctgctgct aacgacagta tgatgcttac 120
 tctgctactc ggaaactatt tttatgtaat taatgtatgc tttcttgttt ataaatgcct 180
 gatttaaaaa aaaaaaaaaa a 201

<210> 79
 <211> 552
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(552)
 <223> n = A,T,C or G

<400> 79
 tccttttggt aggtttttga gacaacccta gacctaaact gtgtcacaga cttctgaatg 60
 tttaggcagt gctagtaatt tcctcgtaat gattctgtta ttactttcct attctttatt 120
 cctctttcct ctgaagatta atgaagttga aaattgaggt ggataaatac aaaaaggtag 180
 tgtgatagta taagtatcta agtgcagatg aaagtgtgtt atatatatcc attcaaaatt 240
 atgcaagtta gtaattactc agggttaact aaattacttt aatatgctgt tgaacctact 300
 ctgttccttg gctagaaaaa attataaaca ggactttgtt agtttgggaa gccaaattga 360
 taatattcta tgttctaaaa gttgggctat acataaanta tnaagaaata tgggaatttta 420
 ttcccaggaa tatgggggttc atttatgaat antacccggg anagaagttt tgantnaaac 480
 cngttttggt taatacggtta atatgtcctn aatnaacaag gcntgactta tttccaaaaa 540
 aaaaaaaaaa aa 552

<210> 80
 <211> 476
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(476)
 <223> n = A,T,C or G

<400> 80
 acagggattt gagatgctaa ggccccagag atcgtttgat ccaaccctct tattttcaga 60
 ggggaaaatg gggcctagaa gttacagagc atctagctgg tgcgctggca cccctggcct 120
 cacacagact cccgagtagc tgggactaca ggcacacagt cactgaagca ggccctgttt 180
 gcaattcacg ttgccacctc caacttaaac attcttcata tgtgatgtcc ttagtcaacta 240
 aggttaaaact ttcccaccca gaaaaggcaa cttagataaa atcttagagt actttcatac 300
 tcttctaagt cctcttccag cctcactttg agtctcctt gggggttgat aggaantntc 360
 tcttggtttt ctcaataaaa tctctatcca tctcatgttt aatttggtac gcntaaaaat 420
 gctgaaaaaa ttaaaatgtt ctggtttctc tttaaaaaaa aaaaaaaaaa aaaaaa 476

<210> 81
 <211> 232

<212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(232)
 <223> n = A,T,C or G

<400> 81
 tttttttttg tatgcctcn ctgtgngtt attgttgctg ccaccctgga ggagcccagt 60
 ttcttctgta tctttctttt ctgggggatc ttcttggtc tgccctcca ttcccagcct 120
 ctcaccccca tcttgacctt ttgctagggt tggaggcgct ttctggtag cccctcagag 180
 actcagtcag cgggaataag tcctaggggg ggggggtgtg gcaagccggc ct 232

<210> 82
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(383)
 <223> n = A,T,C or G

<400> 82
 aggcggggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactggtgcc 60
 agtaccagta ccaataacat gccagtgcc gtgccagcac cagtgggtggc ttcagtgtg 120
 gtgccagcct gaccgccact ctcacatttg ggctcttcgc tggccttggg ggagctggtg 180
 ccagcaccag tggcagctct ggtgcctgtg gtttctccta caagtggat tttagatatt 240
 gttaatcctg ccagtccttc tcttcaagcc aggggtgcac ctcagaaacc tactcaacac 300
 agcactctng gcagccacta tcaatcaatt gaagttgaca ctctgcatta aatctatttg 360
 ccatttcaaa aaaaaaaaaa aaa 383

<210> 83
 <211> 494
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(494)
 <223> n = A,T,C or G

<400> 83
 accgaattgg gaccgctggc ttataagcga tcatgtctc cagtattacc tcaacgagca 60
 gggagatcga gtctatacgc tgaagaaatt tgaccgatg ggacaacaga cctgtctcagc 120
 ccattcctgt cggttctccc cagatgacaa atactctcga caccgaatca ccatcaagaa 180
 acgcttcaag gtgctcatga ccagcaacc gcgccctgtc ctctgagggt ccttaaactg 240
 atgtcttttc tgccacctgt taccctctcg agactccgta accaaactct tcggactgtg 300
 agccctgatg cttttttgcc agccatactc tttggctcc agtctctcgt ggcgattgat 360
 tatgcttgtg tgaggcaatc atggtggcat caccatnaa gggaacacat ttganttttt 420
 ttttncatat tttaaattac naccagaata ntccagaata aatgaattga aaaactctta 480
 aaaaaaaaaa aaaa 494

<210> 84
 <211> 380
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(380)
 <223> n = A,T,C or G

<400> 84
 gctggtagcc tatggcgtgg ccacggangg gctcctgagg cacgggacag tgacttccca 60
 agtatcctgc gccgcgtctt ctaccgtccc tacctgcaga tcttcgggca gattccccag 120
 gaggacatgg acgtggccct catggagcac agcaactgct cgtcggagcc cggcttcttg 180
 gcacaccctc ctggggccca ggcgggcacc tgcgtctccc agtatgccaa ctggctggtg 240
 gtgctgctcc tcgtcatctt cctgctcgtg gccaacatcc tgctggtcac ttgctcattg 300
 ccatgttcag ttacacattc ggcaaagtac agggcaacag cnatctctac tgggaaggcc 360
 agcgttncgg cctcatccgg 380

<210> 85
 <211> 481
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(481)
 <223> n = A,T,C or G

<400> 85
 gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggctctctgc ttcataccgc 60
 tnccatcgtc ataactgtagg ttggccacca cctcctgcat cttggggcgg ctaatatcca 120
 ggaaactctc aatcaagtca ccgtcnatna aacctgtggc tggttctgtc ttccgctcgg 180
 tgtgaaagga tctccagaag gagtgtctga tcttccccac acttttgatg actttattga 240
 gtcgattctg catgtccagc aggaggttgt accagctctc tgacagtgag gtcaccagcc 300
 ctatcatgcc nttgaacgtg ccgaagaaca ccgagccttg tgtggggggt gnagtctcac 360
 ccagattctg cattaccaga nagccgtggc aaaaganatt gacaactcgc ccaggngaa 420
 aaagaacacc tcttggaagt gctngccgct cctcgtccnt tggtggnngc gcntnccttt 480
 t 481

<210> 86
 <211> 472
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(472)
 <223> n = A,T,C or G

<400> 86
 aacatcttcc tgtataatgc tgtgtaatat cgatcogatn ttgtctgctg agaattcatt 60
 acttggaana gcaacttnaa gcttgacac tgggtattaaa attcacaata tgcaacactt 120
 taaacagtgt gtcaatctgc tcccttactt tgtcatcacc agtctgggaa taagggtatg 180

```

ccctattcac acctgttaaa agggcgctaa gcatttttga ttcaacatct ttttttttga 240
cacaagtcgg aaaaaagcaa aagtaaacag ttnttaattt gttagccaat tcaactttctt 300
catgggacag agccatttga tttaaaaagc aaattgcata atattgagct ttgggagctg 360
atatntgagc ggaagantag ccttttctact tcaccagaca caactccttt catattggga 420
tgtnnacnaa agttatgtct cttacagatg ggatgctttt gtggcaattc tg 472

```

```

<210> 87
<211> 413
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(413)
<223> n = A,T,C or G

```

```

<400> 87
agaaaccagt atctctnaaa acaacctctc ataccttgtg gacctaatth tgtgtgctg 60
tgtgtgtgctg cgcattattat atagacaggc acatcttttt tacttttgta aaagcttatg 120
cctcttttgg atctatatct gtgaaagtth taatgatctg ccataatgtc ttggggacct 180
ttgtcttctg tgtaaatggg actagagaaa acacctatnt tatgagtcaa tctagttngt 240
tttattcgac atgaaggaaa tttccagatn acaacactna caaactctcc cttgactagg 300
ggggacaaaag aaaagcnaaa ctgaacatna gaaacaattn cctggtgaga aattncataa 360
acagaaattg ggtngtatat tgaaanannn catcattnaa acgttttttt ttt 413

```

```

<210> 88
<211> 448
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(448)
<223> n = A,T,C or G

```

```

<400> 88
cgcagcgggt cctctctatc tagctccagc ctctgcctg cccactccc cgcgtccgc 60
gtcctagccn accatggccg ggcccctgctg cgcctgctg ccactcctggc 120
cgtggccctg gccgtgagcc ccgcggccgg ctccagtcct ggcaagccgc cgcgcctggt 180
gggaggccca tggacccccg gtggaagaag aagggtgtgc gctgactg gactttgcg 240
tcggcnanta caacaaaccc gcaacnactt ttaccnagcn cgcgctgcag gttgtgcgc 300
cccaancaaa ttgttactng gggtaanata ttcttggaag ttgaacctgg gccaaacnng 360
tttaccagaa ccnagccaat tngaacaatt ncccctccat aacagcccct tttaaaaagg 420
gaancantcc tgntcttttc caaattht

```

```

<210> 89
<211> 463
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(463)
<223> n = A,T,C or G

```

```

<400> 89
gaattttgtg cactggccac tgtgatggaa ccattgggcc aggatgcttt gagtttatca    60
gtagtgattc tgccaaagt ggtgttgtaa catgagtatg taaaatgtca aaaaattagc    120
agagggtctag gtctgcatat cagcagacag tttgtccgtg tattttgtag ccttgaagtt    180
ctcagtgaca agttnnttct gatgcgaagt tctnattcca gtgttttagt cctttgcatc    240
tttnatgttn agacttgcct ctntnaaatt gcttttgtnt tctgcaggta ctatctgtgg    300
tttaacaaaa tagaannact tctctgcttn gaanatttga atatcttaca tctnaaaatn    360
aattctctcc ccatannaaa acccangccc ttgggganaat ttgaaaaang gntccttcnn    420
aattcnnana anttcagtn tcatacaaca naacngganc ccc                          463

```

```

<210> 90
<211> 400
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(400)
<223> n = A,T,C or G

```

```

<400> 90
agggattgaa ggtctnttnt actgtcggac tgttcancca ccaactctac aagttgctgt    60
cttccactca ctgtctgtaa gcntnttaac ccagactgta tcttcataaa tagaacaaat    120
tcttcaccag tcacatcttc taggaccttt ttggattcag ttagtataag ctcttccact    180
tcctttgtta agacttcate tggtaaagtc ttaagttttg tagaaaaggaa tttaatgtct    240
cgttctctaa caatgtcctc tccttgaagt atttggctga acaaccacc tnaagtcctt    300
ttgtgcatcc attttaaata tacttaatag ggcattggtn cactagggtta aattctgcaa    360
gagtcactctg tctgcaaaaag ttgcgttagt atatctgcca                          400

```

```

<210> 91
<211> 480
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(480)
<223> n = A,T,C or G

```

```

<400> 91
gagctcggat ccaataatct ttgtctgagg gcagcacaca tatncagtgc catggnaact    60
ggtctacccc acatgggagc agcatgccgt agntatataa ggtcattccc tgagtcagac    120
atgcctcttt gactaccgtg tgccagtgtt ggtgattctc acacacctcc nncgctctt    180
tgtggaaaaa ctggcacttg nctggaacta gcaagacatc acttaciaat tcaccacga    240
gacacttgaa aggtgtaaca aagcgactct tgcattgctt tttgtccctc cggcaccagt    300
tgtcaatact aaccgctggg tttgcctcca tcacatttgt gatctgtagc tctggataca    360
tctcctgaca gtactgaaga acttcttctt ttgtttcaaa agcaactctt ggtgcctgtt    420
ngatcaggtt cccatttccc agtccgaatg ttcacatggc atatnttact tcccacaaaa    480

```

```

<210> 92
<211> 477
<212> DNA
<213> Homo sapien

```

<220>
 <221> misc_feature
 <222> (1)...(477)
 <223> n = A,T,C or G

<400> 92
 atacagccca natcccacca cgaagatgcg cttgttgact gagaacctga tgcggtcact 60
 ggtcccgtg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcctt 120
 cccacgcagg cagcagcggg gccggtcaat gaactccact cgtggcttgg ggttgacggt 180
 taantgcagg aagaggctga ccacctcgcg gtccaccagg atgcccgact gtgcgggacc 240
 tgcagcgaaa ctccctcgatg gtcatgagcg ggaagcgaat gangcccagg gccttgccca 300
 gaaccttccg cctgtttctt ggcgtcacct gcagctgctg ccgctnacac tcggcctcgg 360
 accagcggac aaacggcggt gaacagccgc acctcacgga tgcccantgt gtcgcgctcc 420
 aggaacggcn ccagcgtgtc caggtcaatg tcggtgaanc ctccgcgggt aatggcg 477

<210> 93
 <211> 377
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(377)
 <223> n = A,T,C or G

<400> 93
 gaacggctgg accttgctc gcattgtgct gctggcagga ataccttggc aagcagctcc 60
 agtccgagca gccccagacc gctgccgcc gaagctaagc ctgcctctgg ccttcccctc 120
 cgcctcaatg cagaaccant agtgggagca ctgtgtttag agttaagagt gaacactgtn 180
 tgattttact tgggaatttc ctctgttata tagcttttcc caatgctaatt ttccaaacaa 240
 caacaacaaa ataacatgtt tgccctgttna gttgtataaaa agtangtgat tctgtatnta 300
 aagaaaatat tactgttaca tatactgctt gcaanttctg tattttattgg tinctctggaa 360
 ataaatatat tattaata 377

<210> 94
 <211> 495
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(495)
 <223> n = A,T,C or G

<400> 94
 ccctttgagg ggttagggtc cagttcccag tggaagaaac aggccaggag aantgctgct 60
 cgagctgang cagatttccc acagtgacct cagagccctg ggctatagtc tctgaccctt 120
 ccaaggaaa accaccttct ggggacatgg gctggagggc aggacctaga ggcaccaagg 180
 gaaggcccca ttccggggct gttccccgag gaggaaggga aggggctctg tgtgcccccc 240
 acgaggaana ggccctgant cctgggatca nacaccctt cacgtgtatc cccacacaaa 300
 tgcaagctca ccaaggtccc ctctcagtc ctccctaca ccctgaacgg nactggccc 360
 acaccacccc agancancca cccgccatgg ggaatgttct caaggaatcg cngggcaacg 420
 tggactctng tcccnnaagg gggcagaatc tccaatagan gganngaacc cttgctnana 480

aaaaaaaaana aaaaa

495

<210> 95
<211> 472
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(472)
<223> n = A,T,C or G

<400> 95
ggttacttgg tttcattgcc accacttagt ggatgtcatt tagaaccatt ttgtctgctc 60
cctctggaag ccttgccgag agcggacttt gtaattgttg gagaataact gctgaatfff 120
tagctgtttt gagttgattc gcaccactgc accacaactc aatatgaaaa ctatttnact 180
tattttattat cttgtgaaaa gtatacaatg aaaattttgt tcatactgta tttatcaagt 240
atgatgaaaa gcaatagata tatattcttt tattatgttn aattatgatt gccattatta 300
atcggcaaaa tgtggagtgt atgttctttt cacagtaata tatgcctttt gtaacttcac 360
ttggttatff tattgtaaat gaattacaaa attcttaatt taagaaaatg gtangttata 420
tttanttcan taatttcttt cctgttttac gttaattttg aaaagaatgc at 472

<210> 96
<211> 476
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(476)
<223> n = A,T,C or G

<400> 96
ctgaagcatt ttttcaaact tntctacttt tgtcattgat acctgtagta agttgacaat 60
gtggtgaaat ttcaaaatta tatgtaactt ctactagtff tactttctcc cccaagtctt 120
ttttaactca tgattttttac acacacaatc cagaacttat tatatagcct ctaagtcttt 180
attcttcaca gtagatgatg aaagagtcct ccagtgtctt gngcanaatg ttctagntat 240
agctggatac ataongtggg agttctataa actcatacct cagtgggact naacccaaat 300
tgtgttagtc tcaattccta ccacactgag ggagcctccc aaatcactat attcttatct 360
gcaggtaact ctccagaaaa acngacaggg caggcttgca tgaaaaagtn acatctgcgt 420
tacaaaagtct atcttctcta nangtctgtn aaggaacaat ttaatcttct agcttt 476

<210> 97
<211> 479
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(479)
<223> n = A,T,C or G

<400> 97
actctttcta atgctgatat gatcttgagt ataagaatgc atatgtcact agaattgata 60

aaataatgct	gcaaacttaa	tggttcttatg	caaaatggaa	cgctaataa	acacagctta	120
caatcgcaaa	tcaaaactca	caagtgtctca	tctgtttag	atttagtgta	ataagactta	180
gattgtgctc	cttcggatat	gattgtttct	canatcttgg	gcaatnttcc	ttagtcaa	240
caggctacta	gaattctgtt	attggatatn	tgagagcatg	aaatttttaa	naatacactt	300
gtgattatna	aattaatcac	aaatttcaact	tatacctgct	atcagcagct	agaaaaacat	360
ntnnttttta	natcaaagta	ttttgtgttt	ggaantgttn	aatgaaatc	tgaatgtggg	420
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<210> 98
 <211> 461
 <212> DNA
 <213> Homo sapien

<400> 98						
agtgaactgt	cctccaacaa	aacccttga	tcaagtttgt	ggcactgaca	atcagaccta	60
tgctagtacc	tgctacttat	tcgctactaa	atgcagactg	gaggggacca	aaaaggggca	120
tcaactccag	ctggattatt	ttggagcctg	caaactctatt	cctacttgta	cggactttga	180
agtgaattcag	tttctcttac	ggatgagaga	ctggctcaag	aatatcctca	tgacagcttta	240
tgaagccact	ctgaacacgc	tggttatcta	gatgagaaca	gagaaataaa	gtcagaaaat	300
ttacctggag	aaaagaggct	ttggctgggg	accatcccat	tgaaccttct	cttaaggact	360
ttaagaaaaa	ctaccacatg	ttgtgtatcc	tggtgccggc	cgtttatgaa	ctgaccaccc	420
tttgaataaa	tcttgacgct	cctgaacttg	ctcctctgcg	a		461

<210> 99
 <211> 171
 <212> DNA
 <213> Homo sapien

<400> 99						
gtggccgcgc	gcagggtgtt	cctcgtagcg	cagggccccc	tcccttcccc	aggcgctccct	60
cggcgctctc	gcgggcccga	ggaggagcgg	ctggcggttg	gggggagtg	gacccacctt	120
cggtagaaaa	agccttctct	agcgatctga	gagggcgtgc	ttgggggtac	c	171

<210> 100
 <211> 269
 <212> DNA
 <213> Homo sapien

<400> 100						
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cgactgcgac	gacggcgccg	gcgacagtcg	caggtgcagc	gcgggcgcct	gggtcttgc	120
aaggctgagc	tgacgccgca	gaggtcgtgt	cacgtcccac	gacctgacg	ccgtcgggga	180
cagccggaac	agagcccggg	gaagcgggag	gcctcgggga	gcccctcggg	aaggcgggcc	240
cgagagatac	gcaggtgcag	gtggccgcc				269

<210> 101
 <211> 405
 <212> DNA
 <213> Homo sapien

<400> 101						
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gctagcaagg	taacagggta	gggcatgggt	acatgttcag	gtcaacttcc	ttgtcgtgg	120
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agtgggtgca	ccctccctgt	agaacctggt	tacaaagctt	ggggcagttc	acctggctctg	240
tgaccgtcat	tttcttgaca	tcaatgttat	tagaagtcag	gatatctttt	agagagtcca	300
ctgttctgga	gggagattag	ggtttcttgc	caaatccaac	aaaatccact	gaaaaagtgtg	360
gatgatcagt	acgaataccg	aggcatattc	tcatatcggt	ggcca		405

<210> 102
 <211> 470
 <212> DNA
 <213> Homo sapien

<400> 102						
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ggcacttaat	ccattttttat	ttcaaaatgt	ctacaaattt	aatccattta	tacggtatatt	120
tcaaaatcta	aattatttcaa	attagccaaa	tccttaccac	ataataccca	aaaatcaaaa	180
atatacttct	ttcagcaaac	ttgttacata	aattaaaaaa	atatatacgg	ctgggtgtttt	240
caaagtacaa	ttatcttaac	actgcaaaca	ttttaaggaa	ctaaaataaa	aaaaaacact	300
ccgcaaagggt	taaagggaac	aacaaattct	tttacaacac	cattataaaa	atcatatctc	360
aaatcttagg	ggaatatata	cttcacacgg	gatcttaact	tttactcact	ttgttttattt	420
ttttaaaacca	ttgtttgggc	ccaacacaat	ggaatcccc	ctggactagt		470

<210> 103
 <211> 581
 <212> DNA
 <213> Homo sapien

<400> 103						
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taaatggaaa	ctgccttaga	tacataattc	ttaggaatta	gcttaaaatc	tgccataaagt	180
gaaaatcttc	tctagctctt	ttgactgtaa	atttttgact	cttgtaaaac	atccaaattc	240
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gcttctctag	cctcatttcc	tagctcttat	ctactattag	taagtggctt	ttttcctaaa	360
agggaaaaca	ggaagagaaa	tggcacacaa	aacaaacatt	ttatattcat	atttctacct	420
acgttaataa	aatagcattt	tgtgaagcca	gctcaaaaga	aggcttagat	ccttttatgt	480
ccatttttagt	cactaaacga	tatcaaagtg	ccagaatgca	aaaggtttgt	gaacatttat	540
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<210> 104
 <211> 578
 <212> DNA
 <213> Homo sapien

<400> 104						
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cactctctag	atagggcatg	aagaaaactc	atctttccag	ctttaaaata	acaatcaaat	120
ctcttatgct	atatcatatt	ttaagttaaa	ctaagtgc	actggcttat	cttctcctga	180
aggaaatctg	ttcatcttct	tcattcatat	agttatatca	agtactacct	tgcatattga	240
gagggtttttc	ttctctattt	acacatatat	ttccatgtga	atttgtatca	aacctttatt	300
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caaaactgct	caaattgttt	gttaagtatt	ccattataat	tagttggcag	gagctaatac	420
aaatcacatt	tacgacagca	ataataaaac	tgaagtacca	gttaaataatc	caaaataatt	480
aaaggaacat	ttttagcctg	ggtataatta	gctaattcac	tttacaagca	tttattagaa	540
tgaattcaca	tgttattatt	cctagcccaa	cacaatgg			578

<210> 105
 <211> 538
 <212> DNA
 <213> Homo sapien

<400> 105
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 gtcttgaaca ccaatattaa tttgaggaaa atacaccaaa atacattaag taaattattt 180
 aagatcatag agcttgtaag tgaaaagata aaatttgacc tcagaaactc tgagcattaa 240
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 tgtactttgc taatacgtgg atatgagttg acaagtttct ctttcttcaa tcttttaagg 420
 ggcgagaaat gaggaagaaa agaaaaggat tacgcatact gttctttcta tggaaggatt 480
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<210> 106
 <211> 473
 <212> DNA
 <213> Homo sapien

<400> 106
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 agactgtgtc tgtctgaatc aaatgatctg acctatctc ggtggcaaga actcttcgaa 420
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<210> 107
 <211> 1621
 <212> DNA
 <213> Homo sapien

<400> 107
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<210> 108

<211> 382

<212> PRT

<213> Homo sapien

<400> 108

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          20          25          30
Arg Val Asp Arg Pro Gly Ser Arg Tyr Asp Val Ser Arg Leu Gly Arg
          35          40          45
Gly Lys Arg Ser Leu Val Leu Asp Leu Lys Gln Pro Arg Gly Ala Ala
          50          55          60
Val Leu Arg Arg Leu Cys Lys Arg Ser Asp Val Leu Leu Glu Pro Phe
          65          70          75          80
Arg Arg Gly Val Met Glu Lys Leu Gln Leu Gly Pro Glu Ile Leu Gln
          85          90          95
Arg Glu Asn Pro Arg Leu Ile Tyr Ala Arg Leu Ser Gly Phe Gly Gln
          100          105          110
Ser Gly Ser Phe Cys Arg Leu Ala Gly His Asp Ile Asn Tyr Leu Ala
          115          120          125
Leu Ser Gly Val Leu Ser Lys Ile Gly Arg Ser Gly Glu Asn Pro Tyr
          130          135          140
Ala Pro Leu Asn Leu Leu Ala Asp Phe Ala Gly Gly Gly Leu Met Cys
          145          150          155          160
Ala Leu Gly Ile Ile Met Ala Leu Phe Asp Arg Thr Arg Thr Asp Lys
          165          170          175
Gly Gln Val Ile Asp Ala Asn Met Val Glu Gly Thr Ala Tyr Leu Ser
          180          185          190
Ser Phe Leu Trp Lys Thr Gln Lys Ser Ser Leu Trp Glu Ala Pro Arg
          195          200          205
Gly Gln Asn Met Leu Asp Gly Gly Ala Pro Phe Tyr Thr Thr Tyr Arg
          210          215          220
Thr Ala Asp Gly Glu Phe Met Ala Val Gly Ala Ile Glu Pro Gln Phe
          225          230          235          240
Tyr Glu Leu Leu Ile Lys Gly Leu Gly Leu Lys Ser Asp Glu Leu Pro
          245          250          255
Asn Gln Met Ser Met Asp Asp Trp Pro Glu Met Lys Lys Lys Phe Ala
          260          265          270
Asp Val Phe Ala Lys Lys Thr Lys Ala Glu Trp Cys Gln Ile Phe Asp
          275          280          285

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Gly Thr Asp Ala Cys Val Thr Pro Val Leu Thr Phe Glu Glu Val Val
 290 295 300
 His His Asp His Asn Lys Glu Arg Gly Ser Phe Ile Thr Ser Glu Glu
 305 310 315 320
 Gln Asp Val Ser Pro Arg Pro Ala Pro Leu Leu Leu Asn Thr Pro Ala
 325 330 335
 Ile Pro Ser Phe Lys Arg Asp Pro Phe Ile Gly Glu His Thr Glu Glu
 340 345 350
 Ile Leu Glu Glu Phe Gly Phe Ser Arg Glu Glu Ile Tyr Gln Leu Asn
 355 360 365
 Ser Asp Lys Ile Ile Glu Ser Asn Lys Val Lys Ala Ser Leu
 370 375 380

<210> 109
 <211> 1524
 <212> DNA
 <213> Homo sapien

<400> 109
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 atgatgaagg acgtgttctt ctctctcttc ttctctggcg tgtggctggc agcctatggc 360
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<210> 110
 <211> 3410
 <212> DNA
 <213> Homo sapien

<400> 110
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3410

<210> 111
<211> 1289
<212> DNA
<213> Homo sapien

<400> 111
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tgtgtggtgc agccctggtg gcagtgggca tctgggtgtc aatcgatggg gcaccccttc 240
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tcacgcagc cggcggttggt gtctttgtct ttggtttcct gggctgctat ggtgctaaga 360
ctgagagcaa gtgtgccctc gtgacgttct tcttcacact cctcctcatc ttcattgctg 420
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tgctggtagt gcctgccatc aagaaagatt atgggttccca ggaagacttc actcaagtgt 540
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actcacccta cttcaaagag aacagtgcct ttccccatt ctggttgcaat gacaacgtca 660
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gcttcaatca gcttttgtat gacatccgaa ctaatgcagt caccgtgggt ggtgtggcag 780
ctggaattgg gggcctcgag ctggtgccca tgattgtgtc catgtatctg tactgcaatc 840
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aagtgaatc agcagagcct ctgggtggat gtgtagaagg cacttcaaaa tgcataaacc 1260
tgttacaatg ttaaaaaaaaa aaaaaaaaaa 1289

<210> 112
<211> 315
<212> PRT
<213> Homo sapien

<400> 112
Met Val Phe Thr Val Arg Leu Leu His Ile Phe Thr Val Asn Lys Gln
1 5 10 15
Leu Gly Pro Lys Ile Val Ile Val Ser Lys Met Met Lys Asp Val Phe
20 25 30
Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr Gly Val Ala
35 40 45
Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro Ser Ile Leu
50 55 60
Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly Gln Ile Pro
65 70 75 80
Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn Cys Ser Ser
85 90 95
Glu Pro Gly Phe Trp Ala His Pro Pro Gly Ala Gln Ala Gly Thr Cys
100 105 110
Val Ser Gln Tyr Ala Asn Trp Leu Val Val Leu Leu Leu Val Ile Phe
115 120 125
Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu Ile Ala Met Phe


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<210> 113
<211> 553
<212> PRT
<213> Homo sapien
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<400> 113															
Met	Val	Gln	Arg	Leu	Trp	Val	Ser	Arg	Leu	Leu	Arg	His	Arg	Lys	Ala
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Gln	Leu	Leu	Leu	Val	Asn	Leu	Leu	Thr	Phe	Gly	Leu	Glu	Val	Cys	Leu
			20					25					30		
Ala	Ala	Gly	Ile	Thr	Tyr	Val	Pro	Pro	Leu	Leu	Leu	Glu	Val	Gly	Val
		35					40					45			
Glu	Glu	Lys	Phe	Met	Thr	Met	Val	Leu	Gly	Ile	Gly	Pro	Val	Leu	Gly
	50					55					60				
Leu	Val	Cys	Val	Pro	Leu	Leu	Gly	Ser	Ala	Ser	Asp	His	Trp	Arg	Gly
65					70					75					80
Arg	Tyr	Gly	Arg	Arg	Arg	Pro	Phe	Ile	Trp	Ala	Leu	Ser	Leu	Gly	Ile
				85					90					95	
Leu	Leu	Ser	Leu	Phe	Leu	Ile	Pro	Arg	Ala	Gly	Trp	Leu	Ala	Gly	Leu
			100					105					110		
Leu	Cys	Pro	Asp	Pro	Arg	Pro	Leu	Glu	Leu	Ala	Leu	Leu	Ile	Leu	Gly
		115					120					125			
Val	Gly	Leu	Leu	Asp	Phe	Cys	Gly	Gln	Val	Cys	Phe	Thr	Pro	Leu	Glu
	130					135					140				
Ala	Leu	Leu	Ser	Asp	Leu	Phe	Arg	Asp	Pro	Asp	His	Cys	Arg	Gln	Ala
145					150					155					160
Tyr	Ser	Val	Tyr	Ala	Phe	Met	Ile	Ser	Leu	Gly	Gly	Cys	Leu	Gly	Tyr
				165					170					175	
Leu	Leu	Pro	Ala	Ile	Asp	Trp	Asp	Thr	Ser	Ala	Leu	Ala	Pro	Tyr	Leu
			180					185					190		

Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu Leu Thr Leu Ile Phe Leu
 195 200 205
 Thr Cys Val Ala Ala Thr Leu Leu Val Ala Glu Glu Ala Ala Leu Gly
 210 215 220
 Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala Pro Ser Leu Ser Pro His
 225 230 235 240
 Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe Arg Asn Leu Gly Ala Leu
 245 250 255
 Leu Pro Arg Leu His Gln Leu Cys Cys Arg Met Pro Arg Thr Leu Arg
 260 265 270
 Arg Leu Phe Val Ala Glu Leu Cys Ser Trp Met Ala Leu Met Thr Phe
 275 280 285
 Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu Gly Leu Tyr Gln Gly Val
 290 295 300
 Pro Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly
 305 310 315 320
 Val Arg Met Gly Ser Leu Gly Leu Phe Leu Gln Cys Ala Ile Ser Leu
 325 330 335
 Val Phe Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg
 340 345 350
 Ala Val Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala
 355 360 365
 Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu
 370 375 380
 Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala
 385 390 395 400
 Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly
 405 410 415
 Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser Leu Met Thr Ser Phe Leu
 420 425 430
 Pro Gly Pro Lys Pro Gly Ala Pro Phe Pro Asn Gly His Val Gly Ala
 435 440 445
 Gly Gly Ser Gly Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser
 450 455 460
 Ala Cys Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala
 465 470 475 480
 Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp
 485 490 495
 Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met Gly Ser
 500 505 510
 Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met Val Ser Ala Ala
 515 520 525
 Gly Leu Gly Leu Val Ala Ile Tyr Phe Ala Thr Gln Val Val Phe Asp
 530 535 540
 Lys Ser Asp Leu Ala Lys Tyr Ser Ala
 545 550

<210> 114
 <211> 241
 <212> PRT
 <213> Homo sapien

<400> 114
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 20 25 30
 Ser Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu Ser Ser
 35 40 45
 Ser Ala Met Gln Phe Val Asn Val Gly Tyr Phe Leu Ile Ala Ala Gly
 50 55 60
 Val Val Val Phe Ala Leu Gly Phe Leu Gly Cys Tyr Gly Ala Lys Thr
 65 70 75 80
 Glu Ser Lys Cys Ala Leu Val Thr Phe Phe Ile Leu Leu Leu Ile
 85 90 95
 Phe Ile Ala Glu Val Ala Ala Ala Val Val Ala Leu Val Tyr Thr Thr
 100 105 110
 Met Ala Glu His Phe Leu Thr Leu Leu Val Val Pro Ala Ile Lys Lys
 115 120 125
 Asp Tyr Gly Ser Gln Glu Asp Phe Thr Gln Val Trp Asn Thr Thr Met
 130 135 140
 Lys Gly Leu Lys Cys Cys Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp
 145 150 155 160
 Ser Pro Tyr Phe Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn
 165 170 175
 Asp Asn Val Thr Asn Thr Ala Asn Glu Thr Cys Thr Lys Gln Lys Ala
 180 185 190
 His Asp Gln Lys Val Glu Gly Cys Phe Asn Gln Leu Leu Tyr Asp Ile
 195 200 205
 Arg Thr Asn Ala Val Thr Val Gly Gly Val Ala Ala Gly Ile Gly Gly
 210 215 220
 Leu Glu Leu Ala Ala Met Ile Val Ser Met Tyr Leu Tyr Cys Asn Leu
 225 230 235 240
 Gln

<210> 115
 <211> 366
 <212> DNA
 <213> Homo sapien

<400> 115
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 ttggtttgat aatccatctt gctttttccc cattggaact agtcattaac ccatctctga 180
 actggtagaa aaacatctga agagctagtc tatcagcadc tgacaggtga attggatggt 240
 tctcagaacc atttcaccca gacagcctgt ttctatcctg ttttaataaat tagtttggt 300
 tctctacatg cataacaaac cctgctccaa tctgtcacat aaaagtctgt gacttgaagt 360
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<210> 116
 <211> 282
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(282)

<223> n = A,T,C or G

<400> 116

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acaaagatga accatttcct atattatagc aaaattaaaa tctaccogta ttctaattatt    60
gagaaatgag atnaaacaca atnttataaa gtctacttag agaagatcaa gtgacctcaa    120
agactttact attttcatat tttaagacac atgatttata ctatttttagt aacctgggtc    180
atacgttaaa caaaggataa tgtgaacagc agagaggatt tgttggcaga aaatctatgt    240
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<210> 117

<211> 305

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(305)

<223> n = A,T,C or G

<400> 117

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acacatgtcg cttcactgcc ttcttagatg cttctgggtca acatanagga acagggacca    60
tatttatcct cctcctcgaa acaattgcaa aataanacaa aatatatgaa acaattgcaa    120
aataaggcaa aatatatgaa acaacaggtc tcgagatatt ggaaatcagt caatgaagga    180
tactgatccc tgatcactgt cctaatgcag gatgtgggaa acagatgagg tcacctctgt    240
gactgccccca gcttactgcc tgtagagagt ttctangctg cagttcagac agggagaaat    300
tgggt                                           305

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<210> 118

<211> 71

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(71)

<223> n = A,T,C or G

<400> 118

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accaaggtgt ntgaatctct gacgtgggga tctctgattc ccgcacaatc tgagtggaaa    60
aantcctggg t                                           71

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<210> 119

<211> 212

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(212)

<223> n = A,T,C or G

<400> 119

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gaaaatgggg tgaaattggc caactttcta tnaacttatg ttggcaantt tgccaccaac    120

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agtaagctgg cccttctaataaaaagaaaat tgaaagggtt ctactaanc ggaattaant 180
aatggantca aganactccc aggcctcagc gt 212

<210> 120
<211> 90
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(90)
<223> n = A,T,C or G

<400> 120
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ctccgccggc gcagaacatg ctggggtggt 90

<210> 121
<211> 218
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(218)
<223> n = A,T,C or G

<400> 121
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gaataagatt tgctaaaaga tttggggcta aaacatggtt attgggagac atttctgaag 120
atatncangt aaattangga atgaattcat ggttcttttg ggaattcctt tacgatngcc 180
agcatanact tcatgtgggg atancagcta cccttgta 218

<210> 122
<211> 171
<212> DNA
<213> Homo sapien

<400> 122
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catttgtag ctcatggaac aggaagtcgg atggtggggc atcttcagtg ctgcatgagt 120
caccaccccg gcggggtcat ctgtgccaca ggtccctggt gacagtgcg t 171

<210> 123
<211> 76
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(76)
<223> n = A,T,C or G

<400> 123

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ttatcaanta ttgtgt 76

<210> 124
<211> 131
<212> DNA
<213> Homo sapien

<400> 124
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caatgtgctg ggtcatatgg aggggaggag actctaaaat agccaatttt attctcttgg 120
ttaagatttg t 131

<210> 125
<211> 432
<212> DNA
<213> Homo sapien

<400> 125
actttatcta ctggctatga aatagatggt ggaaaattgc gttaccaact ataccactgg 60
cttgaaaaag aggtgatagc tcttcagagg acttgtgact tttgctcaga tgctgaagaa 120
ctacagtctg catttggcag aaatgaagat gaatttggat taaatgagga tgctgaagat 180
ttgcctcacc aaacaaaagt gaaacaactg agagaaaatt ttcaggaaaa aagacagtgg 240
ctcttgaagt atcagtcact tttgagaatg tttcttagtt actgcatact tcatggatcc 300
catggtgggg gtcttgcac tgtaagaatg gaattgatt tgcttttgca agaattctcag 360
caggaaacat cagaaccact attttctagc cctctgtcag agcaaaccct agtgcctctc 420
ctctttgctt gt 432

<210> 126
<211> 112
<212> DNA
<213> Homo sapien

<400> 126
acacaacttg aatagtaaaa tagaaactga gctgaaattt ctaattcact ttctaaccat 60
agtaagaatg atatttcccc ccagggatca ccaaatattt ataaaaattt gt 112

<210> 127
<211> 54
<212> DNA
<213> Homo sapien

<400> 127
accacgaaac cacaacaag atggaagcat caatccactt gccaaagcaca gcag 54

<210> 128
<211> 323
<212> DNA
<213> Homo sapien

<400> 128
acctcattag taattgtttt gttgtttcat ttttttctaa tgtctcccct ctaccagctc 60
acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca 120
ttctctctga agtctaggtt acccattttg gggaccatt ataggcaata aacacagttc 180

```
<210> 129
<211> 192
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(192)
<223> n = A,T,C or G
```

```
<210> 130
<211> 362
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(362)
<223> n = A,T,C or G
```

```
<210> 131
<211> 332
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1)...(332)  
<223> n = A,T,C or G
```

<400>	131						
ctttttgaaa	gatcgtgtcc	actcctgtgg	acatcttgtt	ttaatggagt	ttcccatgca		60
gtangactgg	tatggttgca	gctgtccaga	taaaaacatt	tgaagagctc	caaaatgaga		120
gtttctcccg	gttcgcctcg	ctgtcccaag	tctcagcagc	agcctctttt	aggaggcatc		180
ttctgaacta	gattaaggca	ctgtgtaaat	ctgatgtgat	ttggttttatt	atccaactaa		240

cttccatctg ttatcactgg agaaagccca gactccccan gacnggtacg gattgtgggc 300
atanaaggat tgggtgaagc tggcgttggtg gt 332

<210> 132
<211> 322
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(322)
<223> n = A,T,C or G

<400> 132
acttttgcca ttttgtatat ataaacaatc ttgggacatt ctctgaaaa ctaggtgtcc 60
agtggctaag agaactcgat ttcaagcaat tctgaaagga aaaccagcat gacacagaat 120
ctcaaattcc caaacagggg ctctgtggga aaaatgaggg aggacctttg tatctcgggt 180
tttagcaagt taaaatgaan atgacaggaa aggcttattt atcaacaaag agaagagttg 240
ggatgcttct aaaaaaaact ttggtagaga aaataggaat gctnaatcct aggggaagcct 300
gtaacaatct acaattggtc ca 322

<210> 133
<211> 278
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G

<400> 133
acaagccttc acaagtttaa ctaaattggg attaatcttt ctgtanttat ctgcataatt 60
cttggttttc tttccatctg gctcctgggt tgacaatttg tggaaacaac tctattgcta 120
ctatttataaa aaaatcacaa atctttccct ttaagctatg ttnaattcaa actattcctg 180
ctattcctgt tttgtcaaag aaattatatt tttcaaaata tgtntatttg tttgatgggt 240
cccacgaac actaataaaa accacagaga ccagcctg 278

<210> 134
<211> 121
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(121)
<223> n = A,T,C or G

<400> 134
gtttanaaaa cttgttttagc tccatagagg aaagaatggt aaactttgta ttttaaaaca 60
tgattctctg aggttaaact tggttttcaa atgttatatt tacttgtatt ttgcttttgg 120
t 121

<210> 135

<211> 350
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(350)
 <223> n = A,T,C or G

<400> 135
 acttanaacc atgcctagca catcagaatc cctcaaagaa catcagtata atcctataacc 60
 atancaagtg gtgactggtt aagcgtgcga caaaggtcag ctggcacatt acttgtgtgc 120
 aaacttgata cttttgttct aagtaggaac tagtatacag tncctaggan tggtagtcca 180
 gggtagcccc caactcctgc agccgctcct ctgtgccagn ccctgnaagg aactttcgct 240
 ccacctcaat caagccctgg gccatgctac ctgcaattgg ctgaacaaac gtttgctgag 300
 ttcccaagga tgcaaagcct ggtgctcaac tcctggggcg tcaactcagt 350

<210> 136
 <211> 399
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(399)
 <223> n = A,T,C or G

<400> 136
 tgtaccgtga agacgacaga agttgcatgg caggacaggg gcaggggccga ggccagggtt 60
 gctgtgattg tatccgaata ntctcgtga gaaaagataa tgagatgacg tgagcagcct 120
 gcagacttgt gtctgccttc aanaagccag acaggaaggc cctgcctgcc ttggctctga 180
 cctggcggcc agccagccag ccacaggtgg gcttcttcct tttgtggtga caacnccaag 240
 aaaactgcag agggccaggg tcaggtgtna gtgggtangt gaccataaaa caccaggtgc 300
 tcccaggaac cggggcaaag gccatcccca cctacagcca gcatgccac tggcgtgatg 360
 ggtgcagang gatgaagcag ccagntgttc tgctgtggt 399

<210> 137
 <211> 165
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(165)
 <223> n = A,T,C or G

<400> 137
 actggtgtgg tngggggtga tgctggtggt anaagttgan gtgacttcan gatggtgtgt 60
 ggaggaagtg tgtgaacgta gggatgtaga ngttttggcc gtgctaaatg agcttcggga 120
 ttggctggtc ccactggtgg tcaactgtcat tggtaggggtt cctgt 165

<210> 138
 <211> 338
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(338)

<223> n = A,T,C or G

<400> 138

actcactgga	atgccacatt	cacaacagaa	tcagaggtct	gtgaaaacat	taatggctcc	60
ttaactttct	cagtaagaat	cagggacttg	aaatggaaac	gttaacagcc	acatgcccaa	120
tgctgggcag	tctcccatgc	cttccacagt	gaaagggctt	gagaaaaatc	acatccaatg	180
tcatgtgttt	ccagccacac	caaaagggtgc	ttgggggtgga	gggctggggg	catananggt	240
cangcctcag	gaagcctcaa	gttccattca	gctttgccac	tgtacattcc	ccatntttta	300
aaaaactgat	gccttttttt	tttttttttg	taaaattc			338

<210> 139

<211> 382

<212> DNA

<213> Homo sapien

<400> 139

gggaatcttg	gtttttggca	tctggtttgc	ctatagccga	ggccactttg	acagaacaaa	60
gaaagggact	tcgagtaaga	aggtgattta	cagccagcct	agtgcccgaa	gtgaaggaga	120
attcaaacag	acctcgatcat	tcctgggtgtg	agcctgggtcg	gtcaccgcc	tatcatctgc	180
atttgctta	ctcaggtgct	accggactct	ggccccgat	gtctgtagt	tcacaggatg	240
ccttatttgt	cttctacacc	ccacagggcc	ccctacttct	tcggatgtgt	ttttaataat	300
gtcagctatg	tgccecatcc	tccttcattgc	cctccctccc	tttctacca	ctgctgagtg	360
gcctggaact	tgtttaaagt	gt				382

<210> 140

<211> 200

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(200)

<223> n = A,T,C or G

<400> 140

accaaancctt	ctttctgttg	tgttngattt	tactataggg	gtttngcttn	ttctaaanat	60
acttttcatt	taacancctt	tgtaagtgt	caggctgcac	tttgcctcat	anaattattg	120
ttttcacatt	tcaacttgta	tgtgtttgtc	tcttanagca	ttggtgaaat	cacatatttt	180
atattcagca	taaaggagaa					200

<210> 141

<211> 335

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(335)

<223> n = A,T,C or G

<400> 141
 actttatttt caaaacactc atatgttgca aaaaacacat agaaaaataa agtttggtgg 60
 ggggtgctgac taaacttcaa gtcacagact tttatgtgac agattggagc agggtttggt 120
 atgcatgtag agaaccctaaa ctaatttatt aaacaggata gaaacaggct gtctgggtga 180
 aatgggttctg agaaccatcc aattcacctg tcagatgctg atanactagc tcttcagatg 240
 tttttctacc agttcagaga tnggttaatg actanttcca atggggaaaa agcaagatgg 300
 attcacaac caagtaattt taaacaaaga cactt 335

<210> 142
 <211> 459
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(459)
 <223> n = A,T,C or G

<400> 142
 accaggttaa tattgccaca tatatccttt ccaattgcgg gctaaacaga cgtgtattta 60
 gggttgttta aagacaaccc agcttaatat caagagaaat tgtgacctt catggagtat 120
 ctgatggaga aaacactgag ttttgacaaa tcttatttta ttcagatagc agtctgatca 180
 cacatggtc aacaacactc aaataataaa tcaaataatna tcagatgta aagattggtc 240
 ttcaaacatc atagccaatg atgccccgct tgcctataat ctctccgaca taaaaccaca 300
 tcaacacctc agtggccacc aaaccattca gcacagcttc cttaactgtg agctgtttga 360
 agctaccagt ctgagcacta ttgactatnt ttttcangct ctgaatagct ctagggatct 420
 cagcangggg gggaggaacc agctcaacct tggcgtant 459

<210> 143
 <211> 140
 <212> DNA
 <213> Homo sapien

<400> 143
 acatttcctt ccaccaagtc aggactcctg gcttctgtgg gagttcttat cacctgaggg 60
 aaatccaaac agtctctcct agaaaggaat agtgtcacca accccacca tctccctgag 120
 accatccgac ttccctgtgt 140

<210> 144
 <211> 164
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(164)
 <223> n = A,T,C or G

<400> 144
 aottcagtaa caacatacaa taacaacatt aagtgtatat tgccatcttt gtcattttct 60
 atctatacca ctctcccttc tgaaaacaan aatcactanc caatcactta tacaaatttg 120
 aggcaattaa tccatatttg ttttcaataa ggaaaaaaag atgt 164

<210> 145
 <211> 303
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(303)
 <223> n = A,T,C or G

<400> 145
 acgtagacca tcacaactttg tatttgaat ggcaaacatc cagnagcaat tcctaaacaa 60
 actggagggt atttataccc aattatccca ttcattaaca tgccctcctc ctcaggctat 120
 gcaggacagc tatcataagt cggcccaggc atccagatac taccatttgt ataaacttca 180
 gtaggggagt ccatccaagt gacaggtcta atcaaaggag gaaatggaac ataagcccag 240
 tagtaaaatn ttgcttagct gaaacagcca caaaagactt accgccgtgg tgattaccat 300
 caa 303

<210> 146
 <211> 327
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(327)
 <223> n = A,T,C or G

<400> 146
 actgcagctc aattagaagt ggtctctgac ttcatcanc ttctccctgg gctccatgac 60
 actggcctgg agtgactcat tgctctgggt gggtgagaga gtcctttgc caacaggcct 120
 ccaagtcagg gctgggattt gtttccttcc cacattctag caacaatatg ctggccactt 180
 cctgaacagg gaggggtgga ggagccagca tggaacaagc tgccactttc taaagtagcc 240
 agacttgccc ctgggcctgt cacacctact gatgaccttc tgtgcctgca ggatggaatg 300
 taggggtgag ctgtgtgact ctatggt 327

<210> 147
 <211> 173
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(173)
 <223> n = A,T,C or G

<400> 147
 acattgtttt tttagataa agcattgana gagctctcct taacgtgaca caatggaagg 60
 actggaacac ataccacat ctttgttctg agggataatt ttctgataaa gtcttgctgt 120
 atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gtt 173

<210> 148
 <211> 477
 <212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(477)

<223> n = A,T,C or G

<400> 148

acaaccactt	tatctcatcg	aatttttaac	ccaaactcac	tactgtgccc	tttctatcct	60
atgggatata	ttatttgatg	ctccatttca	tcacacatat	atgaataata	cactcatact	120
gccctactac	ctgctgcaat	aatcacattc	ccttcctgtc	ctgaccctga	agccattggg	180
gtggtcctag	tggccatcag	tccangcctg	caccttgagc	ccttgagctc	cattgctcac	240
nccancccac	ctcaccgacc	ccatcctctt	acacagctac	ctccttgctc	tctaacccca	300
tagattatnt	ccaaattcag	tcaattaagt	tactattaac	actctaccgc	acatgtccag	360
caccactggt	aagccttctc	cagccaacac	acacacacac	acacncacac	acacacatat	420
ccaggcacag	gctacctcat	cttcacaatc	acccctttaa	ttaccatgct	atggtgg	477

<210> 149

<211> 207

<212> DNA

<213> Homo sapien

<400> 149

acagttgtat	tataatatca	agaaataaac	ttgcaatgag	agcatttaag	agggagaagac	60
taacgtat	tagagagcca	aggaaggttt	ctgtggggag	tgggatgtaa	ggtggggcct	120
gatgataaat	aagagtcagc	caggtaagt	ggtgggtgtg	tatgggcaca	gtgaagaaca	180
tttcaggcag	agggacacgc	agtgaaa				207

<210> 150

<211> 111

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(111)

<223> n = A,T,C or G

<400> 150

accttgattt	cattgctgct	ctgatggaaa	cccaactatc	taatttagct	aaaacatggg	60
cacttaaatg	tggtcagtgt	ttggacttgt	taactantgg	catctttggg	t	111

<210> 151

<211> 196

<212> DNA

<213> Homo sapien

<400> 151

agcgcgccag	gtcatattga	acattccaga	tacctatcat	tactcgatgc	tgttgataac	60
agcaagatgg	ctttgaactc	agggtcacca	ccagctattg	gaccttacta	tgaaaacat	120
ggataccaac	cggaaaaccc	ctatcccgc	cagcccactg	tgggtccccc	tgtctacgag	180
gtgcatccgg	ctcagt					196

<210> 152

<211> 132
 <212> DNA
 <213> Homo sapien

<400> 152
 acagcacttt cacatgtaag aagggagaaa ttctaaatg taggagaaag ataacagAAC 60
 cttccccctt tcatctagtG gtggaaacct gatgctttat gttgacagga atagaaccag 120
 gagggagttt gt 132

<210> 153
 <211> 285
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(285)
 <223> n = A,T,C or G

<400> 153
 acaanaccca nganaggcca ctggccgtgg tgtcatggcc tccaaacatg aaagtgtcag 60
 cttctgctct tatgtcctca tctgacaact ctttaccatt tttatcctcg ctcagcagga 120
 gcacatcaat aaagtccaaa gtcttggact tggccttggc ttggaggaag tcatcaacac 180
 cctggctagt gaggggtgcg cgccgctcct ggatgacggc atctgtgaag tcgtgcacca 240
 gtctgcaggc cctgtggaag cgccgtccac acggagtnag gaatt 285

<210> 154
 <211> 333
 <212> DNA
 <213> Homo sapien

<400> 154
 accacagtcc tgttggggcca gggcttcatg accctttctg tgaaaagcca tattatcacc 60
 accccaaatt tttccttaaa tatctttaac tgaaggggtc agcctcttga ctgcaaagac 120
 cctaagccgg ttacacagct aactcccact ggccctgatt tgtgaaattg ctgctgcctg 180
 attggcacag gagtccaagg tgttcagctc cctcctccg tggaacgaga ctctgatttg 240
 agtttcacaa attctcgggc cacctcgta ttgctcctct gaaataaaat ccggagaatg 300
 gtcaggcctg tctcatccat atggatcttc cgg 333

<210> 155
 <211> 308
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(308)
 <223> n = A,T,C or G

<400> 155
 actggaaata ataaaaccca catcacagtG ttgtgtcaaa gatcatcagg gcatggatgg 60
 gaaagtgctt tgggaactgt aaagtgccta acacatgatc gatgattttt gttataatat 120
 ttgaatcag gtgcatacaa actctcctgc ctgctcctcc tgggccccag cccagcccc 180
 atcacagctc actgctctgt tcatccaggc ccagcatgta gtggctgatt cttcttggct 240

gcttttagcc tccanaagtt tctctgaagc caaccaaacc tctangtgta aggcatgctg 300
gccctggt 308

<210> 156
<211> 295
<212> DNA
<213> Homo sapien

<400> 156
accttgctcg gtgcttggaa catattagga actcaaaata tgagatgata acagtgccta 60
ttattgatta ctgagagaac tgtagacat ttagttgaag attttctaca caggaactga 120
gaataggaga ttatgtttgg cctcatatt ctctcctatc ctcttgcct cattctatgt 180
ctaatatatt ctcaatcaaa taaggttagc ataatcagga aatcgaccaa ataccaatat 240
aaaaccagat gtctatcctt aagattttca aatagaaaac aaattaacag actat 295

<210> 157
<211> 126
<212> DNA
<213> Homo sapien

<400> 157
acaagtttaa atagtgtgt cactgtgcat gtgctgaaat gtgaaatcca ccacatttct 60
gaagagcaaa acaaattctg tcatgtaatc tctatcttgg gtcgtgggta tatctgtccc 120
cttagt 126

<210> 158
<211> 442
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(442)
<223> n = A,T,C or G

<400> 158
accactggt cttggaaaca cccatcctta atacgatgat ttttctgtcg tgtgaaaatg 60
aanccagcag gctgccccta gtcagtcctt ccttccagag aaaaagagat ttgagaaagt 120
gcctgggtaa ttcaccatta atttcctccc ccaaactctc tgagtcttcc cttaatat 180
ctggtgggtc tgaccaaagc aggtcatggt ttgttgagca tttgggatcc cagtgaagta 240
natgtttgta gccttgcata cttagccctt cccacgcaca aacggagtgg cagagtgggtg 300
ccaaccctgt tttcccagtc cacgtagaca gattcacagt gcggaattct ggaagctgga 360
nacagacggg ctctttgcag agccgggact ctgagangga catgagggcc tctgcctctg 420
tgttcattct ctgatgtcct gt 442

<210> 159
<211> 498
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(498)
<223> n = A,T,C or G

<400> 159

acttccaggt	aacgttggtg	tttccgttga	gcttgaactg	atgggtgacg	ttgtagggttc	60
tccaacaaga	actgaggttg	cagagcgggt	aggggaagagt	gctgttccag	ttgcacctgg	120
gctgtgtgg	actgttggtg	attcctcact	acggcccaag	gttgtggaac	tggcanaaag	180
gtgtgttggt	gganttgagc	tgggctggct	gtggtaggtt	gtgggctctt	caacaggggc	240
tgctgtggtg	cggggangtg	aangtggtgt	gtcacttgag	cttggccagc	tctggaaaagt	300
antanattct	tcctgaaggc	cagcgcttgt	ggagctggca	ngggtcantg	ttgtgtgtaa	360
cgaaccagtg	ctgctgtggg	tgggtgtana	tcctccacaa	agcctgaagt	tatggtgtcn	420
tcaggtaana	atgtggtttc	agtgtccctg	ggngctgtg	gaaggttgta	nattgtcacc	480
aagggaataa	gctgtggt					498

<210> 160

<211> 380

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(380)

<223> n = A,T,C or G

<400> 160

acctgcatcc	agcttccctg	ccaaactcac	aaggagacat	caacctctag	acagggaaac	60
agcttcagga	tacttccagg	agacagagcc	accagcagca	aaacaaatat	tcccatgcct	120
ggagcatggc	atagaggaag	ctganaaatg	tggggtctga	ggaagccatt	tgagtctggc	180
cactagacat	ctcatcagcc	acttgtgtga	agagatgcc	catgacccca	gatgcctctc	240
ccacccttac	ctccatctca	cacacttgag	ctttccactc	tgtataattc	taacatcctg	300
gagaaaaatg	gcagtttgac	cgaacctgtt	cacaacggta	gaggctgatt	tctaacgaaa	360
cttgtagaat	gaagcctgga					380

<210> 161

<211> 114

<212> DNA

<213> Homo sapien

<400> 161

actccacatc	ccctctgagc	aggcggttgt	cgttcaaggt	gtatttggcc	ttgcctgtca	60
cactgtccac	tggcccotta	tccacttgg	gcttaatccc	tcgaaagagc	atgt	114

<210> 162

<211> 177

<212> DNA

<213> Homo sapien

<400> 162

actttctgaa	tcgaatcaaa	tgatacttag	tgtagtttta	atatcctcat	atatatcaaa	60
gttttactac	tctgataatt	ttgtaaacca	ggtaaccaga	acatccagtc	atacagcttt	120
tgggtgatata	taacttggca	ataaccagtc	ctgggtgatac	ataaaactac	tcactgt	177

<210> 163

<211> 137

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(137)
 <223> n = A,T,C or G

<400> 163
 catttatata gacagggcgtg aagacattca cgacaaaaac gcgaaattct atcccgtgac 60
 canagaaggc agctacggct actcctacat cctggcggtg gtggccttcg cctgcacctt 120
 catcagcggc atgatgt 137

<210> 164
 <211> 469
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(469)
 <223> n = A,T,C or G

<400> 164
 cttatcacaa tgaatgttct cctgggcagc gttgtgatct ttgccacctt cgtgacttta 60
 tgcaatgcat catgctatct catacctaata gagggagttc caggagattc aaccaggaaa 120
 tgcatggatc tcaaaggaaa caaacaccca ataaactcgg agtggcagac tgacaactgt 180
 gagacatgca cttgtctacga aacagaaatt tcatgttgca cccttgtttc tacacctgtg 240
 ggttatgaca aagacaactg ccaaagaatc ttcaagaagg aggactgcaa gtatatcgtg 300
 gtggagaaga aggacccaaa aaagacctgt tctgtcagtg aatggataat ctaatgtgct 360
 tctagtaggc acagggctcc caggccaggc ctcattctcc tctggcctct aatagtcatt 420
 gattgtgtag ccattgcctat cagtaaaaag atntttgagc aaacacttt 469

<210> 165
 <211> 195
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(195)
 <223> n = A,T,C or G

<400> 165
 acagtttttt atanatatcg acattgccgg cacttggtgtt cagtttcata aagctgggtg 60
 atccgctgtc atccactatt ccttggctag agtaaaaatt attcttatag cccatgtccc 120
 tgcaggccgc ccgccgtag ttctcgttcc agtcgtcttg gcacacaggg tgccaggact 180
 tcctctgaga tgagt 195

<210> 166
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<222> (1)...(383)

<223> n = A,T,C or G

<400> 166

```
acatcttagt agtgtggcac atcagggggc catcagggtc acagtcactc atagcctcgc      60
cgaggtcggg gtccacacca ccggtgtagg tgtgctcaat cttgggcttg gcgcccacct      120
ttggagaagg gatatgctgc acacacatgt ccacaaagcc tgtgaactcg ccaaagaatt      180
tttgagacc agcctgagca agggcggat gttcagcttc agtcctcct tcgtcagggtg      240
gatgccaacc tcgtctangg tccgtgggaa gctggtgtcc acntcaccta caacctgggc      300
gangatctta taaagaggct ccnagataaa ctccacgaaa cttctctggg agctgctagt      360
nggggccttt ttggtgaact ttc                                     383
```

<210> 167

<211> 247

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(247)

<223> n = A,T,C or G

<400> 167

```
acagagccag accttggcca taaatgaanc agagattaag actaaacccc aagtcganat      60
tgagagagaa actggagcaa gaagtggggc tggggctgaa gtagagacca agggcactgc      120
tatanccata cacagagcca actctcaggc caaggcnatg gttggggcag anccagagac      180
tcaatctgan tccaaagtgg tggctggaac actggtcatg acanaggcag tgactctgac      240
tgaangtc                                     247
```

<210> 168

<211> 273

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(273)

<223> n = A,T,C or G

<400> 168

```
acttctaagt ttcttagaag tggaaggatt gtantcatcc tgaaaatggg tttacttcaa      60
aatccctcan ccttggtcct cactactgtc tatactgana gtgtcatgtt tccacaaagg      120
gctgacacct gagcctgnat tttcactcat ccctgagaag ccctttccag taggggtggc      180
aattcccaac ttcttgcca caagcttccc aggetttctc ccctggaaaa ctccagcttg      240
agtcccagat acactcatgg gctgccctgg gca                                     273
```

<210> 169

<211> 431

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(431)

<223> n = A,T,C or G

<400> 169

acagccttgg	cttccccaaa	ctccacagtc	tcagtgcaga	aagatcatct	tccagcagtc	60
agctcagacc	aggggtcaaag	gatgtgacat	caacagtttc	tggtttcaga	acagggttcta	120
ctactgtcaa	atgaccccc	atacttcctc	aaaggctgtg	gtaagttttg	cacagggtgag	180
ggcagcagaa	aggggggtant	tactgatgga	caccatcttc	tctgtatact	ccacactgac	240
cttgccatgg	gcaaaggccc	ctaccacaaa	aacaatagga	tcactgctgg	gcaccagctc	300
acgcacatca	ctgacaaccg	ggatggaaaa	agaantgcc	actttcatac	atccaactgg	360
aaagtgatct	gatactggat	tcttaattac	cttcaaaaagc	ttctgggggc	catcagctgc	420
tcgaacactg	a					431

<210> 170

<211> 266

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(266)

<223> n = A,T,C or G

<400> 170

acctgtgggc	tgggctgtta	tgcctgtgcc	ggctgctgaa	agggagtcca	gaggtggagc	60
tcaaggagct	ctgcaggcat	tttgccaanc	ctctccanag	canagggagc	aacctacact	120
ccccgctaga	aagacaccag	attggagtcc	tgggaggggg	agttgggggtg	ggcatttgat	180
gtatacttgt	cacctgaatg	aangagccag	agaggaanga	gacgaanatg	anattggcct	240
tcaaagctag	gggtctggca	ggtgga				266

<210> 171

<211> 1248

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1248)

<223> n = A,T,C or G

<400> 171

ggcagccaaa	tcataaaacgg	cgaggactgc	agcccgcact	cgcagccctg	gcaggcggca	60
ctggtcatgg	aaaacgaatt	gttctgctcg	ggcgtcctgg	tgcattccgca	gtgggtgctg	120
tcagccgcac	actgtttcca	gaagtgagtg	cagagctcct	acaccatcgg	gctgggcctg	180
cacagtcttg	aggccgacca	agagccaggg	agccagatgg	tggaggccag	cctctccgta	240
cggcaccacg	agtacaacag	acccttgtct	gctaaccgacc	tcattgctcat	caagttggac	300
gaatccgtgt	ccgagtctga	caccatccgg	agcatcagca	ttgcttcgca	gtgccctacc	360
gcggggaact	cttgccctgt	ttctggctgg	ggtctgctgg	cgaacggcag	aatgcctacc	420
gtgctgcagt	gcgtgaacgt	gtcggtggtg	tctgaggagg	tctgcagtaa	gctctatgac	480
ccgctgtacc	accccagcat	gttctgcgcc	ggcggagggg	aagaccagaa	ggactcctgc	540
aacggtgact	ctggggggcc	cctgatctgc	aacgggtact	tgcagggcct	tgtgtctttc	600
ggaaaagccc	cgtgtggcca	agttggcgtg	ccagggtgtct	acaccaacct	ctgcaaattc	660
actgagtgga	tagagaaaac	cgtccaggcc	agttaactct	ggggactggg	aacccatgaa	720
attgaccccc	aaatacatcc	tgcggaagga	attcaggaat	atctgttccc	agcccctcct	780
ccctcaggcc	caggagtcca	ggccccagc	ccctcctccc	tcaaaccaag	ggtacagatc	840

```

cccagcccct cctccctcag acccaggagt ccagaccccc cagcccctcc tccctcagac      900
ccaggagtcc agcccctcct ccctcagacc caggagtcca gacccccag cccctcctcc      960
ctcagaccca ggggtccagg cccccaaccc ctccctccctc agactcagag gtccaagccc     1020
ccaaccntc attccccaga cccagaggtc cagggtccag cccctcntcc ctcagaccca     1080
gcggtccaat gccacctaga ctntccctgt acacagtgcc cccttgtggc acgttgaccc     1140
aaccttacca gttggttttt catttttngt ccccttcccc tagatccaga aataaagttt     1200
aagagaagng caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa     1248

```

```

<210> 172
<211> 159
<212> PRT
<213> Homo sapien

```

```

<220>
<221> VARIANT
<222> (1)...(159)
<223> Xaa = Any Amino Acid

```

```

<400> 172
Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro
  1              5              10              15
Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser
      20              25              30
Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr
      35              40              45
Ala Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly
      50              55              60
Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu
      65              70              75              80
Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe
      85              90              95
Cys Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser
      100             105             110
Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe
      115             120             125
Gly Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn
      130             135             140
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
      145             150             155

```

```

<210> 173
<211> 1265
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1265)
<223> n = A,T,C or G

```

```

<400> 173
ggcagcccg c actcgagcc ctggcaggcg gcactggtca tggaaaacga attgttctgc      60
tcggggtcc tgggtgcatcc gcagtgggtg ctgtcagccg cacactgttt ccagaactcc     120
tacaccatcg ggctgggcct gcacagtctt gagggccgacc aagagccagg gagccagatg     180

```

gtggaggcca	gcctctccgt	acggcaccca	gagtacaaca	gacccttgct	cgctaacgac	240
ctcatgctca	tcaagttgga	cgaatccgtg	tccgagttctg	acaccatccg	gagcatcagc	300
attgcttcgc	agtgccctac	cgcggggaac	tcttgccctcg	tttctggctg	gggtctgctg	360
gcgaacggtg	agctcacggg	tgtgtgtctg	ccctcttcaa	ggaggtcctc	tgccagtcg	420
cgggggctga	cccagagctc	tgcgtcccag	gcagaatgcc	taccgtgctg	cagtgcgtga	480
acgtgtcggg	ggtgtctgag	gaggtctgca	gtaagctcta	tgaccgctg	taccacccca	540
gcatgtttctg	cgccggcgga	gggcaagacc	agaaggactc	ctgcaacggt	gactctgggg	600
ggccctgat	ctgcaacggg	tacttgacag	gccttggtgtc	tttcggaaaa	gccccgtgtg	660
gccaagttgg	cgtgccaggt	gtctacacca	acctctgcaa	attcactgag	tggatagaga	720
aaaccgtcca	ggccagttaa	ctctggggac	tgggaaccca	tgaaattgac	ccccaataac	780
atcctgcgga	aggaattcag	gaatatctgt	tcccagcccc	tcctccctca	ggcccaggag	840
tccaggcccc	cagccccctc	tcctcaaac	caagggtaca	gatccccagc	ccctcctccc	900
tcagacccag	gagtcacagc	ccccagccc	ctctccctc	agaccagga	gtccagcccc	960
tcctccntca	gaccacggag	tcagacccc	ccagccctc	atccctcaga	cccaggggtt	1020
gaggccccca	acccctcctc	cttcagagtc	agaggtccaa	gcccccaacc	cctcgttccc	1080
cagacccaga	ggtnnaggtc	ccagccctc	ttccntcaga	cccagnggtc	caatgccacc	1140
tagatttttc	ctgnacacag	tgcccccttg	tggnangttg	acccaacctt	accagttggt	1200
ttttcatttt	tngtcccttt	cccctagatc	cagaaataaa	gtttaagaga	ngngcaaaaa	1260
aaaaa						1265

<210> 174

<211> 1459

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1459)

<223> n = A,T,C or G

<400> 174

ggtcagccgc	acactgtttc	cagaagtgag	tgcagagctc	ctacaccatc	gggctggggc	60
tgcacagtct	tgaggccgac	caagagccag	ggagccagat	ggtggaggcc	agcctctccg	120
tacggcaccc	agagtacaac	agacccttgc	tcgctaacga	cctcatgctc	atcaagttgg	180
acgaatccgt	gtccgagttc	gacaccatcc	ggagcatcag	cattgcttcg	cagtgcctta	240
ccgcggggaa	ctcttgccctc	gtttctggct	ggggctctgct	ggcgaacggt	gagctcacgg	300
gtgtgtgtct	gccctcttca	aggaggtcct	ctgccagtc	gcgggggctg	acccagagct	360
ctgcgtccca	ggcagaatgc	ctaccgtgct	gcagtgcgtg	aacgtgtcgg	tggtgtctga	420
ngaggtctgc	antaagctct	atgaccgct	gtaccacccc	ancatgttct	gcgccggcgg	480
agggcaagac	cagaaggact	cctgcaacgt	gagagagggg	aaaggggagg	gcaggcgact	540
cagggaaggg	tggagaaggg	ggagacagag	acacacaggg	ccgcatggcg	agatgcagag	600
atggagagac	acacagggag	acagtgacaa	ctagagagag	aaactgagag	aaacagagaa	660
ataaacacag	gaataaagag	aagcaaagga	agagagaaac	agaaacagac	atggggaggc	720
agaaacacac	acacatagaa	atgcagttga	ccttccaaca	gcatggggcc	tgaggcggt	780
gacctccacc	caatagaaaa	tcctcttata	acttttgact	ccccaaaaac	ctgactagaa	840
atagcctact	gttgacgggg	agccttacca	ataacataaa	tagtcgattt	atgcatacgt	900
tttatgcatt	catgatatac	ctttgttgga	attttttgat	atttctaagc	tacacagttc	960
gtctgtgaat	ttttttaaat	tggttgcaact	ctcctaaaaa	ttttctgatg	tgtttattga	1020
aaaaatccaa	gtataagtgg	acttggtgat	tcaaacagg	gttggtcaag	ggtcaactgt	1080
gtacccagag	ggaaacagtg	acacagattc	atagaggtga	aacacgaaga	gaaacaggaa	1140
aatcaagac	tctacaaaga	ggctgggcag	ggtggctcat	gcctgtaatc	ccagcacttt	1200
gggaggcgag	gcaggcagat	cacttgaggt	aaggagttca	agaccagcct	ggccaaaatg	1260
gtgaaatcct	gtctgtacta	aaaatacaaa	agttagctgg	atatggtggc	aggcgctgt	1320
aatcccagct	acttgggagg	ctgaggcagg	agaattgctt	gaatatggga	ggcagaggtt	1380

```

gaagtgagtt gagatcacac cactatactc cagctggggc aacagagtaa gactctgtct 1440
caaaaaaaaa aaaaaaaaaa 1459

```

```

<210> 175
<211> 1167
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(1167)
<223> n = A,T,C or G

```

```

<400> 175
gcgcagccct ggcaggcggc actggtcatg gaaaaogaat tgttctgctc gggcgtcctg      60
gtgcatccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg      120
ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggt ggaggccagc      180
ctctccgtac ggcacccaga gtacaacaga ctcttgctcg ctaacgacct catgctcatc      240
aagttggacg aatccgtgtc cgagtctgac accatccgga gcatcagcat tgcttcgcag      300
tgccctaccg cggggaactc ttgcctcgtt tctggctggg gtctgctggc gaacggcaga      360
atgcctaccg tgctgcactg cgtgaacgtg tcggtggtgt ctgaggangt ctgcagtaag      420
ctctatgacc cgctgtacca ccccagcatg ttctgcgcgc gcggaggggc agaccagaag      480
gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt      540
gtgtctttcg gaaaagcccc gtgtggccaa cttggcgtgc cagggtgtcta caccaacctc      600
tgcaaattca ctgagtggat agagaaaacc gtccagncca gtttaactctg gggactggga      660
acccatgaaa ttgaccccca aatacatcct gcggaangaa ttcaggaata tctgttccca      720
gcccctcctc cctcaggccc aggagtccag gcccccagcc cctcctccct caaaccagg      780
gtacagatcc ccagcccctc ctccctcaga cccaggagtc cagacccccc agcccctent      840
ccntcagacc caggagtcca gcccctcctc cntcagacgc aggagtccag acccccagc      900
ccntcntccg tcagaccagc ggggtgcaggc ccccaacccc tcntcntca gagtcagagg      960
tccaagcccc caaccctcgt ttcccagac ccagaggtnc aggtcccagc ccctcctccc     1020
tcagaccagc cgggtccaat ccacctagan tntcctgtga cacagtgcc ccttgtggca     1080
ngttgacca accttaccag ttggtttttc attttttgtc cctttcccct agatccagaa     1140
ataaagtnta agagaagcgc aaaaaaa 1167

```

```

<210> 176
<211> 205
<212> PRT
<213> Homo sapien

<220>
<221> VARIANT
<222> (1)...(205)
<223> Xaa = Any Amino Acid

```

```

<400> 176
Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
 1             5             10             15
Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
      20             25             30
Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
      35             40             45
Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Leu Leu Leu
      50             55             60

```

Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
65 70 75 80
Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly
85 90 95
Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met
100 105 110
Pro Thr Val Leu His Cys Val Asn Val Ser Val Val Ser Glu Xaa Val
115 120 125
Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala
130 135 140
Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly
145 150 155 160
Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys
165 170 175
Ala Pro Cys Gly Gln Leu Gly Val Pro Gly Val Tyr Thr Asn Leu Cys
180 185 190
Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Xaa Ser
195 200 205

<210> 177
<211> 1119
<212> DNA
<213> Homo sapien

<400> 177

```

gcgcaactcgc agccctggca ggcggcactg gtcattgaaa acgaattgtt ctgctcgggc      60
gtcctgtgtgc atccgcagtg ggtgctgtca gccgcacact gtttcagaa ctcctacacc      120
atcgggctgg gctgcacag tcttgaggcc gaccaagagc caggagcca gatggtggag      180
gccagcctct ccgtacggca ccagagtac aacagaccct tgctcgctaa cgacctcatg      240
ctcatcaagt tggacgaatc cgtgtccgag tctgacacca tccggagcat cagcattgct      300
tcgcagtgcc ctaccgcggg gaactcttgc ctggtttctg gctgggggtct gctggcgaaac      360
gatgctgtga ttgccatcca gtcccagact gtgggaggct gggagtgatga gaagctttcc      420
caaccctggc agggttgtac catttcggca acttccagtg caaggacgtc ctgctgcac      480
ctcactgggt gctcactact gctcactgca tcaccgggaa cactgtgatc aactagccag      540
caccatagtt ctccgaagtc agactatcat gattactgtg ttgactgtgc tgtctattgt      600
actaaccatg ccgatgttta ggtgaaatta gcgtcacttg gcctcaacca tcttggtatc      660
cagttatcct cactgaattg agatttcctg cttcagtgtc agccattccc acataatttc      720
tgacctacag aggtgaggga tcatatagct ctccaaggat gctgggtactc ccctcacaaa      780
ttcatttctc ctgttgtagt gaaaggtgcg ccctctggag cctcccaggg tgggtgtgca      840
ggtcacaatg atgaatgtat gatcgtgttc ccattaccca aagcctttaa atccctcatg      900
ctcagtacac cagggcaggc ctagcatttc ttcatctagt gtatgctgtc cattcatgca      960
accacctcag gactcctgga ttctctgcct agttgagctc ctgcatgctg cctccttggg      1020
gaggtgaggg agagggccca tggttcaatg ggatctgtgc agttgtaaca cattaggtgc      1080
ttaataaaca gaagctgtga tgttaaaaaa aaaaaaaaaa      1119

```

<210> 178
<211> 164
<212> PRT
<213> Homo sapien

<220>
<221> VARIANT
<222> (1)...(164)
<223> Xaa = Any Amino Acid

<400> 178
 Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
 1 5 10 15
 Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
 20 25 30
 Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
 35 40 45
 Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu Leu
 50 55 60
 Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
 65 70 75 80
 Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly
 85 90 95
 Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Asp Ala Val
 100 105 110
 Ile Ala Ile Gln Ser Xaa Thr Val Gly Gly Trp Glu Cys Glu Lys Leu
 115 120 125
 Ser Gln Pro Trp Gln Gly Cys Thr Ile Ser Ala Thr Ser Ser Ala Arg
 130 135 140
 Thr Ser Cys Cys Ile Leu Thr Gly Cys Ser Leu Leu Leu Thr Ala Ser
 145 150 155 160
 Pro Gly Thr Leu

<210> 179
 <211> 250
 <212> DNA
 <213> Homo sapien

<400> 179
 ctggagtgcc ttggtgtttc aagcccctgc aggaagcaga atgcaccttc tgaggcacct 60
 ccagctgccc ccggccgggg gatgcgaggc tcggagcacc cttgcccggc tgtgattgct 120
 gccaggcact gttcatctca gcttttctgt ccctttgtct ccggcaagcg cttctgctga 180
 aagttcatat ctggagcctg atgtcttaac gaataaagggt cccatgctcc acccgaaaaa 240
 aaaaaaaaaa 250

<210> 180
 <211> 202
 <212> DNA
 <213> Homo sapien

<400> 180
 actagtccag tgtggtggaa ttccattgtg ttgggcccac cacaatggct acctttaaca 60
 tcacccagac ccgcgccctg cccgtgcccc acgctgctgc taacgacagt atgatgctta 120
 ctctgtact cggaactat ttttatgtaa ttaatgtatg ctttcttggt tataaatgcc 180
 tgatttaaaa aaaaaaaaaa aa 202

<210> 181
 <211> 558
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(558)
 <223> n = A,T,C or G

<400> 181
 tccytttgkt naggtttkkg agacamccck agacctwaan ctgtgtcaca gacttcyngg 60
 aatgttttagg cagtgcctagt aatttcytcg taatgattct gttattactt tcctnattct 120
 ttattcctct ttcttctgaa gattaatgaa gttgaaaatt gaggtggata aatacaaaaa 180
 ggtagtgtga tagtataagt atctaagtgc agatgaaagt gtgttatata tatccattca 240
 aaattatgca agttagtaat tactcagggt taactaaatt actttaatat gctgttgaaac 300
 ctactctggt ccttggtctag aaaaaattat aaacaggact ttgttagttt gggaagccaa 360
 attgataata ttctatgttc taaaagttgg gctatacata aattattaag aaatatggaw 420
 ttttattccc aggaatatgg kgttcatttt atgaatatta cscrggatag awgtwtgagt 480
 aaaaycagtt ttggtwaata ygtwaatat tcmtaaataa acaakgcttt gacttatttc 540
 caaaaaaaaa aaaaaaaaa 558

<210> 182
 <211> 479
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(479)
 <223> n = A,T,C or G

<400> 182
 acagggwttk grggatgcta agsccccrga rwtlygtttga tccaaccctg gcttwttttc 60
 agaggggaaa atggggccta gaagttacag mscatytagy tgggtgcgmg gcacccctgg 120
 cstcacacag astcccgagt agctgggact acaggcacac agtcactgaa gcaggccctg 180
 ttwgcaattc acgttgccac ctccaactta aacattcttc atatgtgatg tccttagtca 240
 ctaagggttaa actttcccac ccagaaaagg caacttagat aaaatcttag agtactttca 300
 tactmttcta agtcctcttc cagcctcact kkgagtcctm cytggggggt gataggaant 360
 ntctcttggc tttctcaata aartctctat ycatctcatg ttttaatttg tacgcatara 420
 awtgstgara aaattaaaaat gttctggtty macttttaaaa aaaaaaaaaa 479

<210> 183
 <211> 384
 <212> DNA
 <213> Homo sapien

<400> 183
 aggggggagc agaagctaaa gccaaagccc aagaagagtg gcagtgccag cactgggtgcc 60
 agtaccagta ccaataacag tgccagtgcc agtgccagca ccagtgggtg cttcagtgtc 120
 ggtgccagcc tgaccgccac tctcacattt gggctcttcg ctggccttgg tggagctggt 180
 gccagcacca gtggcagctc tgggtgcctgt ggtttctcct acaagtgaga ttttagatat 240
 tgtaaatcct gccagtcttt ctcttcaagc cagggtgcat cctcagaaac ctactcaaca 300
 cagcactcta ggcagccact atcaatcaat tgaagttgac actctgcatt aratctattt 360
 gccatttcaa aaaaaaaaaa aaaa 384

<210> 184
 <211> 496
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(496)
 <223> n = A,T,C or G

<400> 184
 accgaattgg gaccgctggc ttataagcga tcatgtyynt ccrgtatcac ctcaacgagc 60
 agggagatcg agtctatacg ctgaagaaat ttgacccgat gggacaacag acctgctcag 120
 cccatcctgc tcggttctcc ccagatgaca aatactctsg acaccgaatc accatcaaga 180
 aacgcttcaa ggtgctcatg acccagcaac cgcgccctgt cctctgaggg tcccttaaac 240
 tgatgtcttt tctgccacct gttaccctc ggagactccg taaccaaact ctcggactg 300
 tgagccctga tgcctttttg ccagccatac tctttggcat ccagtctctc gtggcgattg 360
 attatgcttg tgtgaggcaa tcatggtggc atcaccata aagggaacac atttgacttt 420
 tttttctcat attttaaatt actacmagaw tattwmagaw waaatgawtt gaaaaactst 480
 taaaaaaaaa aaaaaa 496

<210> 185
 <211> 384
 <212> DNA
 <213> Homo sapien

<400> 185
 getggtagcc tatggcgkkg cccacggagg ggctcctgag gccacggrac agtgacttcc 60
 caagtatcyt gcgcsgcgtc ttctaccgtc cctacctgca gatcttcggg cagattcccc 120
 aggaggacat ggacgtggcc ctcatggagc acagcaactg ytcgtcggag cccggcttct 180
 gggcacaccc tcttggggcc caggcgggca cctgcgtctc ccagtatgcc aactggctgg 240
 tgggtgctgct cctcgtcctc ttctgctcgt tggccaacat cctgctggtc aacttgctca 300
 ttgccatgtt cagttacaca ttgggcaaag tacaggggcaa cagcgatctc tactgggaag 360
 ggcgagcgtt accgcctcat ccgg 384

<210> 186
 <211> 577
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(577)
 <223> n = A,T,C or G

<400> 186
 gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggccctctgc ttcataccgc 60
 tnccatcgct atactgtagg ttggccacca cytcctggca tcttggggcg gcntaatatt 120
 ccaggaaact ctcaatcaag tcaccgtcga tgaacctgt gggctgggtc tgtcttccgc 180
 togggtgtgaa aggatctccc agaaggagtg ctcgatcttc ccacacttt tgatgacttt 240
 attgagtcga ttctgcatgt ccagcaggag gttgtaccag ctctctgaca gtgaggtcac 300
 cageccctatc atgccgttga mcgtgccgaa garcaccgag ccttgtgtgg gggkkaagt 360
 ctcacccaga ttctgcatta ccagagagcc gtggcaaaaag acattgacaa actcgcccag 420
 gtggaaaaag amcamctcct ggargtgctn gccgtcctc gtcmgttggg ggcagcgctw 480
 tccttttgac acacaaacaa gttaaaggca tttcagccc ccagaaantt gtcatcatcc 540
 aagatntcgc acagactna tccagttggg attaaat 577

<210> 187

<211> 534
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(534)
 <223> n = A,T,C or G

<400> 187
 aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgstg agaatycatw 60
 actkggaaaa gmaacattaa agcctggaca ctggtattaa aattcacaat atgcaacact 120
 ttaaacagtg tgtcaatctg ctcccyynac tttgtcatca ccagtctggg aakaagggta 180
 tgccctattc acacctgtta aaagggcgct aagcattttt gattcaacat cttttttttt 240
 gacacaagtc cgaaaaaagc aaaagtaaac agttatyaat ttgttagcca attcactttc 300
 ttcattggagc agagccatyt gatttaaaaa gcaaatgca taatattgag ctttygggagc 360
 tgatatttga gcggaagagt agcctttcta cttcaccaga cacaactccc tttcatattg 420
 ggatgttnac naaagtwatg tctctwacag atgggatgct tttgtggcaa ttctgttctg 480
 aggatctccc agtttattta ccacttgac aagaaggcgt tttcttctc aggc 534

<210> 188
 <211> 761
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(761)
 <223> n = A,T,C or G

<400> 188
 agaaaccagt atctctnaaa acaacctctc ataccttgtg gacctaatit tgtgtgcgtg 60
 tgtgtgtgcg cgcatattat atagacaggc acatcttttt tacttttgta aaagcttatg 120
 cctcttttgg atctatatct gtgaaagttt taatgatctg ccataatgtc ttggggacct 180
 ttgtcttctg tgtaaatggg actagagaaa acacctatnt tatgagtcaa tctagttngt 240
 tttattcgac atgaaggaaa tttccagatn acaacactna caaactctcc ctkgackarg 300
 ggggacaaaag aaaagcaaaa ctgamcataa raaacaatwa cctgggtgaga arttgcataa 360
 acagaaatwr ggtagtatat tgaarnacag catcattaaa rmgttwtkt wttctccctt 420
 gcaaaaaaca tgtaengact tcccgttgag taatgccaaag ttgttttttt tatnataaaa 480
 cttgcccttc attacatgtt tnaaagtggg gtgggtgggcc aaaatattga aatgatggaa 540
 ctgactgata aagctgtaca aataagcagt gtgcctaaca agcaacacag taatgttgac 600
 atgcttaatt cacaaatgct aatttcatta taaatgtttg ctaaaataca ctttgaacta 660
 tttttctgtn ttcccagagc tgagatntta gattttatgt agtatnaagt gaaaaantac 720
 gaaaataata acattgaaga aaaaananaa aaanaaaaaa a 761

<210> 189
 <211> 482
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(482)
 <223> n = A,T,C or G

<400> 189

```

tttttttttt tttgccgatn ctactatttt attgcaggan gtgggggtgt atgcaccgca      60
caccgggggt atnagaagca agaaggaagg agggagggca cagccccttg ctgagcaaca      120
aagccgcctg ctgccttctc tgtctgtctc ctgggtgcagg cacatgggga gaccttcccc      180
aaggcagggg ccaccagtcc aggggtggga atacaggggg tgggangtgt gcataagaag      240
tgataggcac aggccacccg gtacagaccc ctcggtctct gacaggtnga ttctgaccag      300
gtcattgtgc cctgcccagg cacagcgtan atctggaaaa gacagaatgc ttctcttttc      360
aaatttggtc ngtcatngaa ngggcanttt tccaanttng gctnggtctt ggtacncttg      420
gttcggccca gctcncgctc caaaaantat tcacccnctt ccnaattgct tgcnngnccc      480
cc

```

<210> 190

<211> 471

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(471)

<223> n = A,T,C or G

<400> 190

```

tttttttttt ttttaaaaca gtttttcaca aaaaaattta ttagaagaat agtggttttg      60
aaaactctcg catccagtga gaactacatt acaccacatt acagctngga atgtnctcca      120
aatgtctggt caaatgatac aatggaacca ttcaatctta cacatgcacg aaagaacaag      180
cgcttttgac atacaatgca caaaaaaaaa aggggggggg gaccacatgg attaaaattt      240
taagtactca tcacatacat taagacacag ttctagtcca gtcnaaaatc agaactgcnt      300
tgaaaaaatt catgtatgca atccaaccaa agaacttnat tgggtatcat gantnctcta      360
ctacatcnac cttgatcatt gccaggaacn aaaagttnaa ancacncngt acaaaaaanaa      420
tctgtaattn anttcaacct ccgtacngaa aaatnttnnt tatacactcc c              471

```

<210> 191

<211> 402

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(402)

<223> n = A,T,C or G

<400> 191

```

gagggattga aggtctgttc tastgtcggm ctgttcagcc accaactcta acaagttgct      60
gtcttccact cactgtctgt aagcttttta acccagacwg tatcttcata aatagaacaa      120
attcttcacc agtcacatct tctaggacct ttttggatto agttagtata agctcttcca      180
cttcttttgt taagacttca tctggttaaag tcttaagttt tgtagaaagg aattyaattg      240
ctcgttctct aacaatgtcc tctccttgaa gtatttggct gaacaacca cctaaagtcc      300
ctttgtgcat ccattttaaa tatacttaat agggcattgk tncactaggt taaattctgc      360
aagagtcatc tgtctgcaaa agttgcgtta gtatatctgc ca              402

```

<210> 192

<211> 601

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(601)

<223> n = A,T,C or G

<400> 192

gagctcggat	ccaataatct	ttgtctgagg	gcagcacaca	tatncagtgc	catggnaact	60
ggtctacccc	acatgggagc	agcatgccgt	agntatataa	ggtcattccc	tgagtcagac	120
atgcytyttt	gaytaccgtg	tgccaagtgc	tggtgattct	yaacacacyt	ccatcccgyt	180
cttttgtgga	aaaactggca	cttkctctgga	actagcarga	catcacttac	aaattcaccc	240
acgagacact	tgaaagggtg	aacaaagcga	ytcttgctatt	gctttttgtc	cctccggcac	300
cagttgtcaa	tactaacccg	ctggtttgcc	tccatcacat	ttgtgatctg	tagctctgga	360
tacatctcct	gacagtactg	aagaacttct	tcttttgttt	caaaagcarc	tcttggtgcc	420
tggtggatca	ggttccatt	tcccagtcyg	aatgttcaca	tggcataatt	wacttcccac	480
aaaacattgc	gatttgaggc	tcagcaacag	caaatcctgt	tccggcattg	gctgcaagag	540
cctcgatgta	gccggccagc	gccaaaggcag	gcgccgtgag	ccccaccagc	agcagaagca	600
g						601

<210> 193

<211> 608

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(608)

<223> n = A,T,C or G

<400> 193

atacagccca	natcccacca	cgaagatgcg	cttggtgact	gagaacctga	tgcggtcact	60
ggtcccgtcg	tagccccagc	gactctccac	ctgctggaag	cggttgatgc	tgactcyyt	120
cccaacgcag	gcagmagcgg	gsccgggtcaa	tgaactccay	tcgtggcttg	gggtkgacgg	180
tkaagtgcag	gaagaggctg	accacctcgc	ggtccaccag	gatgcccagc	tgtgcgggac	240
ctgcagcgaa	actcctcgat	ggatcatgagc	gggaagcgaa	tgaggcccag	ggccttgccc	300
agaaccttcc	gcctgtttct	tggtgctcacc	tgcatgctgt	gccgctgaca	ctcggcctcg	360
gaccagcggg	caaacggcrt	tgaacagccg	cacctcacgg	atgccagctg	tgctgcgctc	420
caggammgsc	accagcgtgt	ccaggtcaat	gtcgggtgaag	ccctccgctg	gtrattggcgt	480
ctgcagtgtt	tttgtcgatg	ttctccaggc	acaggctggc	cagctgcggg	tcattcgaaga	540
gtcgcgcctg	cgtgagcagc	atgaaggcgt	gtcgcgctcg	cagttcttct	tcagggaactc	600
cacgcaat						608

<210> 194

<211> 392

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(392)

<223> n = A,T,C or G

<400> 194

```

gaacggctgg accttgccctc gcattgtgct tgctggcagg gaataccttg gcaagcagyt      60
ccagtccgag cagccccaga ccgctgccgc ccgaagctaa gcctgcctct ggccctcccc      120
tccgcctcaa tgcagaacca gtagtgggag cactgtgttt agagttaaga gtgaacactg      180
tttgatttta cttgggaatt tcctctgtta tatagctttt cccaatgcta atttccaaac      240
aacaacaaca aaataacatg tttgcctgtt aagttgtata aaagtaggtg attctgtatt      300
taaagaaaat attactgtta catatactgc ttgcaatttc tgtatttatt gktnctstgg      360
aaataaatat agttattaaa ggttgtcant cc                                     392

```

```

<210> 195
<211> 502
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(502)
<223> n = A,T,C or G

```

```

<400> 195
ccsttkgagg ggkagggkyc cagttyccga gtggaagaaa caggccagga gaagtgcgtg      60
ccgagctgag gcagatgttc ccacagtgc cccagagcc stgggstata gtytctgacc      120
cctcncaagg aaagaccacs ttctggggac atgggctgga gggcaggacc tagaggcacc      180
aagggaaggc cccattccgg ggstgttccc cgaggaggaa ggggaagggg tctgtgtgcc      240
ccccasgagg aagaggccct gagtcctggg atcagacacc ccttcacgtg tatccccaca      300
caaatgcaag ctcaccaagg tcccctctca gtccccttcc stacaccctg amcggccact      360
gscscacacc caccagagc acgccaccgc ccatggggar tgtgctcaag gartcgcnng      420
gcarcgtgga catctngtcc cagaaggggg cagaatctcc aatagangga ctgarcmstt      480
gctnanaaaa aaaaanaaaa aa                                     502

```

```

<210> 196
<211> 665
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(665)
<223> n = A,T,C or G

```

```

<400> 196
ggttacttgg tttcattgcc accacttagt ggatgtcatt tagaaccatt ttgtctgctc      60
cctctggaag ccttgccgag agcggacttt gtaattgttg gagaataact gctgaatttt      120
wagctgtttk gaggttgatts gcaccactgc acccacaact tcaatatgaa aacyawttga      180
actwatthtat tatcttgtga aaagtataac aatgaaaatt ttgttcatac tgtattkac      240
aagtatgatg aaaagcaawa gatatatatt cttttattat gttaaattat gattgccatt      300
attaatcggc aaaaatgtga gtgtatgttc ttttcacagt aatatatgcc ttttgtaact      360
tcacttggtt attttattgt aaatgartta caaaattctt aatttaagar aatggtagt      420
watatttatt tcattaattt ctttcctkgt ttacgtwaat tttgaaaaga wtgcatgatt      480
tcttgacaga aatcgatctt gatgctgtgg aagtagtttg acccacatcc ctatgagttt      540
ttcttagaat gtataaaggt tgtagcccat cnaacttcaa agaaaaaaat gaccacatac      600
tttgcaatca ggctgaaatg tggcatgctn ttctaattcc aactttataa actagcaaan      660
aagtg                                             665

```

```

<210> 197

```

<211> 492
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(492)
 <223> n = A,T,C or G

<400> 197
 tttntttttt ttttttttgc aggaaggatt ccattttattg tggatgcatt ttcacaatat 60
 atgtttattg gagcgatcca ttatcagtga aaagtatcaa gtgtttataa natttttagg 120
 aaggcagatt cacagaacat gctngtcngc ttgcagtttt acctcgтана gatnacagag 180
 aattatagtc naaccagtaa acnaggaatt tacttttcaa aagattaaat ccaaactgaa 240
 caaaattcta ccctgaaact tactccatcc aaatattgga ataanagtca gcagtgatac 300
 attctcttct gaactttaga ttttctagaa aaatatgtaa tagtgatcag gaagagctct 360
 tgttcaaaag tacaacnaag caatgttccc ttaccatagg ccttaattca aactttgatc 420
 catttcactc ccatcacggg agtcaatgct acctgggaca cttgtatttt gttcatnctg 480
 ancntggctt aa 492

<210> 198
 <211> 478
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(478)
 <223> n = A,T,C or G

<400> 198
 tttnttttgn atttcantct gtannaanta ttttcattat gtttattana aaaatatnaa 60
 tgtntccacn acaaatcatn ttacntnagt aagaggccan ctacattgta caacatacac 120
 tgagtatatt ttgaaaagga caagttttaa gtanacncat attgccganc atancacatt 180
 tatacatggc ttgattgata tttagcacag canaaactga gtgagttacc agaaanaaat 240
 natatatgtc aatcngattt aagatacaaa acagatccta tggtagatan catcntgtag 300
 gagttgtggc tttatgttta ctgaaagtca atgcagttcc tgtacaaaga gatggccgta 360
 agcattctag tacctctact ccattgttaa gaatcgtaca cttatgttta catatgtnc 420
 gggtaagaat tgtgttaagt naanttatgg agaggccan gagaaaaatt tgatncaa 478

<210> 199
 <211> 482
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(482)
 <223> n = A,T,C or G

<400> 199
 agtgacttgt cctccaacaa aacctcttga tcaagtttgt ggcactgaca atcagaccta 60
 tgctagttcc tgtcatctat tcgtacttaa atgcagactg gaggggacca aaaaggggca 120
 tcaactccag ctggattatt ttggagcctg caaatctatt cctacttgta cggactttga 180

```

agtgattcag tttcctctac ggatgagaga ctggctcaag aatatacctca tgcagcttta      240
tgaagccnac tctgaacacg ctggttatct nagatgagaa ncagagaaat aaagtcnaga      300
aaatttacct ggangaaaag aggccttngg ctggggacca tcccattgaa ccttctctta      360
anggacttta agaanaaact accacatgtn tgtngtatcc tgggtgccngg ccgtttantg      420
aacntngacn ncacccttnt ggaatanant cttgaengcn tcctgaactt gtcctctctgc      480
ga                                                                                   482

```

```

<210> 200
<211> 270
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(270)
<223> n = A,T,C or G

```

```

<400> 200
cggccgcaag tgcaactcca gctggggcgg tgcggacgaa gattctgcc a gcagttggtc      60
cgactgcgac gacggcgggc gcgacagtcg caggtgcagc gcgggcgcc t ggggtcttgc      120
aaggctgagc tgacgcgcga gaggtcgtgt cacgtcccac gaccttgacg ccgtcgggga      180
cagccggaac agagcccggt gaangcggga ggcctcgggg agcccctcgg gaagggcggc      240
ccgagagata cgcaggtgca ggtggccgcc
                                                                                   270

```

```

<210> 201
<211> 419
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(419)
<223> n = A,T,C or G

```

```

<400> 201
tttttttttt ttttgaatc tactgcgagc acagcaggtc agcaacaagt ttattttgca      60
gctagcaagg taacagggtg gggcatggtt acatgttcag gtcaacttcc tttgtcgtgg      120
ttgattggtt tgtctttatg ggggcggggg ggggtagggg aaancgaagc anaantaaca      180
tggagtgggt gcaccctccc tgtagaacct ggttacnaaa gcttggggca gttcacctgg      240
tctgtgaccg tcattttctt gacatcaatg ttattagaag tcaggatatc ttttagagag      300
tccactgtnt ctggaggggag attagggttt cttgccaana tccaancaaa atccacntga      360
aaaagtgtga tgatncangt acngaatacc ganggcatan ttctcatant cggtggccca      419

```

```

<210> 202
<211> 509
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(509)
<223> n = A,T,C or G

```

```

<400> 202

```



```

ttnttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt      60
tggcacttaa tccattttta tttcaaaatg tctacaaant ttnaatncnc cattatacng      120
gtnattttnc aaaatctaaa nnttattcaa atntnagcca aantccttac ncaaatnnaa      180
tacnncnaaa aatcaaaaaat atacntntct ttcagcaaac ttngttacat aaattaaaaa      240
aatatatacg gctgggtgttt tcaaagtaca attatcttaa cactgcaaac atnttttnaa      300
ggaactaaaa taaaaaaaaa cactnccgca aaggttaaag ggaacaacaa attcntttta      360
caacancnnc nattataaaa atcatatctc aaatcttagg ggaatatata cttcacacng      420
ggatcttaac ttttactnca ctttggttat ttttttanaa ccattgtntt gggcccaaca      480
caatggnaat nccnccnncn tggactagt                                     509

```

```

<210> 203
<211> 583
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(583)
<223> n = A,T,C or G

```

```

<400> 203
tttttttttt ttttttttga cccccctctt ataaaaaaca agttaccatt ttatttttact      60
tacacatatt tatttttataa ttggtattag atattcaaaa ggcagctttt aaaatcaaac      120
taaagtggaaa ctgccttaga tacataattc ttaggaatta gcttaaaatc tgcctaaagt      180
gaaaatcttc tctagctctt ttgactgtaa atttttgact ctgtgaaaac atccaaattc      240
atttttcttg tctttaaaaa tatctaattc ttccattttt tccctattcc aagtcaattt      300
gcttctctag cctcatttcc tagctcttat ctactattag taagtggctt ttttcctaaa      360
agggaaaaca ggaagagana atggcacaca aaacaaacat tttatattca ttttctacc      420
tacgttaata aaatagcatt ttgtgaagcc agctcaaaag aaggcttaga tccttttatg      480
tccatttttag tcaactaaacg atatcnaaag tgccagaatg caaaagggtt gtgaacattt      540
attcaaaagc taatataaga tatttcacat actcatcttt ctg                                     583

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<210> 204
<211> 589
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(589)
<223> n = A,T,C or G

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<400> 204
ttttttttnt tttttttttt ttttttnctc ttcttttttt ttganaatga ggatcgagtt      60
tttactctc tagatagggc atgaagaaaa ctcatctttc cagcttttaa ataacaatca      120
aatctcttat gctatatcat attttaagtt aaactaatga gtcactggct tatcttctcc      180
tgaaggaaat ctgttcattc ttctcattca tatagttata tcaagtacta ccttgcatat      240
tgagagggtt ttcttctcta tttacacata tatttccatg tgaatttgta tcaaaccctt      300
attttcatgc aaactagaaa ataatgtntt cttttgcata agagaagaga acaatatnag      360
cattacaaaa ctgctcaaat tgtttggttaa gnttatccat tataattagt tnggcaggag      420
ctaatacaaa tcacattttac ngacnagcaa taataaaaact gaagtaccag ttaaatatcc      480
aaaataatta aaggaacatt tttagcctgg gtataattag ctaattcaot ttacaagcat      540
ttattnagaa tgaattcaca tgttattatt cntagccca acacaatgg                                     589

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<210> 205
 <211> 545
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(545)
 <223> n = A,T,C or G

<400> 205
 ttttntttt ttttttcagt aataatcaga acaatattta tttttatatt taaaattcat 60
 agaaaagtgc cttacattta ataaaagtgt gtttctcaaa gtgatcagag gaattagata 120
 tngtcttgaa caccaatatt aatttgagga aaatacacca aaatacatta agtaaattat 180
 ttaagatcat agagcttgta agtgaaaaga taaaatttga cctcagaaac tctgagcatt 240
 aaaaatccac tattagcaaa taaattacta tggacttctt gctttaattt tgtgatgaat 300
 atgggggtgct actggtaaac caacacattc tgaaggatac attacttagt gatagattct 360
 tatgtacttt gctanatnac gtggatatga gttgacaagt ttctctttct tcaatctttt 420
 aaggggcnga ngaaatgagg aagaaaagaa aaggattacg catactgttc tttctatngg 480
 aaggattaga tatgtttcct ttgccaatat taaaaaata ataatgttta ctactagtga 540
 aacc 545

<210> 206
 <211> 487
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(487)
 <223> n = A,T,C or G

<400> 206
 ttttttttt ttttttagtc aagtttctna tttttattat aattaaagtc ttggtcattt 60
 catttattag ctctgcaact tacatattta aattaaagaa acgttnttag acaactgtna 120
 caatttataa atgtaagggtg ccattattga gtanatatat tcctccaaga gtggatgtgt 180
 ccttctccc accaactaat gaancagcaa cattagttta attttattag tagatnatac 240
 actgctgcaa acgctaattc tcttctccat ccccatgtng atattgtgta tatgtgtgag 300
 ttggttagaa tgcatacanca atctnacaat caacagcaag atgaagctag gcntgggctt 360
 tcggtgaaaa tagactgtgt ctgtctgaat caaatgatct gacctatcct cgggtggcaag 420
 aactcttcga accgcttctt caaaggcngc tgccacattt gtggcntctn ttgcacttgt 480
 ttcaaaa 487

<210> 207
 <211> 332
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(332)
 <223> n = A,T,C or G

<400> 207

tgaattggct	aaaagactgc	atttttanaa	ctagcaactc	ttatttcttt	cctttaaaaa	60
tacatagcat	taaatcccaa	atcctattta	aagacctgac	agcttgagaa	ggtcactact	120
gcatttatag	gaccttctgg	tggttctgct	gttacntttg	aantctgaca	atccttgana	180
atctttgcat	gcagaggagg	taaaaggtat	tggattttca	cagaggaana	acacagcgca	240
gaaatgaagg	ggccaggctt	actgagcttg	tccactggag	ggctcatggg	tgggacatgg	300
aaaagaaggc	agcctaggcc	ctggggagcc	ca			332

<210> 208
 <211> 524
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(524)
 <223> n = A,T,C or G

<400> 208						
agggcggtgt	gcggaggggc	ttactgtttt	gtctcagtaa	caataaatac	aaaaagactg	60
gttgtgttcc	ggccccatcc	aaccacgaag	ttgattttct	ttgtgtgcag	agtgactgat	120
tttaaaggac	atggagcttg	tcacaatgtc	acaatgtcac	agtgtgaagg	gcacactcac	180
tcccgcggtga	ttcacattta	gcaaccaaca	atagctcatg	agtccatact	tgtaataact	240
tttggcagaa	tacttnttga	aacttgcaga	tgataactaa	gatccaagat	atttcccaaa	300
gtaaatagaa	gtgggtcata	atattaatta	cctgttcaca	tcagcttcca	tttacaagtc	360
atgagccag	acactgacat	caaactaagc	ccacttagac	tcctcaccac	cagtctgtcc	420
tgtcatcaga	caggaggctg	tcaccttgac	caaattctca	ccagtcacac	atctatccaa	480
aaaccattac	ctgatccact	tccggtaatg	caccaccttg	gtga		524

<210> 209
 <211> 159
 <212> DNA
 <213> Homo sapien

<400> 209						
gggtgaggaa	atccagagtt	gccatggaga	aaattccagt	gtcagcattc	ttgtctccttg	60
tggccctctc	ctacactctg	gccagagata	ccacagtcaa	acctggagcc	aaaaaggaca	120
caaaggactc	tcgacccaaa	ctgcccaga	cctctcca			159

<210> 210
 <211> 256
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(256)
 <223> n = A,T,C or G

<400> 210						
actccctggc	agacaaaggc	agaggagaga	gtctgttag	ttctgtgttg	ttgaactgcc	60
actgaatttc	tttccaactg	gactattaca	tgccanttga	gggactaatg	gaaaaacgta	120
tggggagatt	ttanccaatt	tangtntgta	aatggggaga	ctggggcagg	cgggagagat	180
ttgcagggtg	naaatgggan	ggctggtttg	ttanatgaac	agggacatag	gaggtaggca	240
ccaggatgct	aatca					256

<210> 211
 <211> 264
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(264)
 <223> n = A,T,C or G

<400> 211
 acattgtttt tttagataa agcattgaga gagctctcct taacgtgaca caatggaagg 60
 actggaacac ataccacacat ctttgttctg agggataatt ttctgataaa gtcttgctgt 120
 atattcaagc acatatgtta tatattattc agttccatgt ttatagccta gttaaggaga 180
 ggggagatac attcngaaag aggactgaaa gaaataactca agtnggaaaa cagaaaaaga 240
 aaaaaaggag caaatgagaa gcct 264

<210> 212
 <211> 328
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(328)
 <223> n = A,T,C or G

<400> 212
 acccaaaaaat ccaatgctga atatttggtc tcattattcc canattcttt gattgtcaaa 60
 ggatttaatg ttgtctcagc ttgggcactt cagttaggac ctaaggatgc cagccggcag 120
 gtttatatat gcagcaacaa tattcaagcg cgacaacagg ttattgaact tgcccggcag 180
 ttnaatttca ttcccattga cttgggatcc ttatcatcag ccagagagat tgaaaattta 240
 cccctacnac tctttactct ctgganaggg ccagtgggtg tagctataag ctgggcaca 300
 tttttttttc ctttattcct ttgtcaga 328

<210> 213
 <211> 250
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(250)
 <223> n = A,T,C or G

<400> 213
 acttatgagc agagcgacat atccnagtgt agactgaata aaactgaatt ctctccagtt 60
 taaagcattg ctactgaag ggatagaagt gactgccagg agggaaagta agccaaggct 120
 cattatgcc aagganatat acatttcaat tctccaaact tcttcctcat tccaagagtt 180
 ttcaatattt gcatgaacct gctgataanc catgttaana aacaaatatc tctctnacct 240
 tctcatcggt 250

<210> 214

<211> 444
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(444)
 <223> n = A,T,C or G

<400> 214
 acccagaatc caatgctgaa tatttggctt cattattccc agattctttg attgtcaaag 60
 gatttaatgt tgtctcagct tgggcacttc agttaggacc taaggatgcc agccggcagg 120
 tttatatatg cagcaacaat attcaagcgc gacaacagggt tattgaactt gcccgccagt 180
 tgaatttcac tcccattgac ttgggacccct tatcatcagc canagagatt gaaaatttac 240
 ccctacgact ctttactctc tggagagggc cagtgggtgg agctataagc ttggccacat 300
 ttttttttcc tttattcctt tgtcagagat gcgattcacc catatgctan aaaccaacag 360
 agtgactttt acaaaattcc tataganatt gtgaataaaa ccttacctat agttgccatt 420
 actttgctct ccctaataata cctc 444

<210> 215
 <211> 366
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(366)
 <223> n = A,T,C or G

<400> 215
 acttatgagc agagcgacat atccaagtgt anactgaata aaactgaatt ctctccagtt 60
 taaagcattg ctactgaag ggatagaagt gactgccagg agggaaaagta agccaaggct 120
 cattatgcca aagganatat acatttcaat tctccaaact tcttctcat tccaagagtt 180
 ttcaatattt gcatgaacct gctgataagc catgttgaga aacaaatata tctctgacct 240
 tctcatcggg aagcagaggc tgtaggcaac atggaccata gcgaanaaaa aacttagtaa 300
 tccaagctgt tttctacact gtaaccagggt ttccaaccaa ggtggaaatc tcctatactt 360
 ggtgcc 366

<210> 216
 <211> 260
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(260)
 <223> n = A,T,C or G

<400> 216
 ctgtataaac agaactccac tgcangaggg agggccgggc caggagaatc tccgcttgtc 60
 caagacaggg gcctaaggag ggtctccaca ctgctnntaa gggtnttnc atttttttat 120
 taataaaaag tnnaaaaggc ctcttctcaa cttttttccc ttnggctgga aaatttaaaa 180
 atcaaaaatt tcctnaagtt ntcaagctat catatatact ntatcctgaa aaagcaacat 240
 aattcttcc tccctccttt 260

<210> 217
 <211> 262
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(262)
 <223> n = A,T,C or G

<400> 217
 acctacgtgg gtaagtttan aaatgttata atttcaggaa naggaacgca tataattgta 60
 tcttgcctat aattttctat tttaataagg aaatagcaaa ttgggggtggg gggaatgtag 120
 ggcatcttac agtttgagca aaatgcaatt aaatgtggaa ggacagcact gaaaaatttt 180
 atgaataatc tgtatgatta tatgtctcta gagtagattt ataattagcc acttacccta 240
 atatccttca tgcttgtaaa gt 262

<210> 218
 <211> 205
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(205)
 <223> n = A,T,C or G

<400> 218
 accaaggtgg tgcattaccg gaantggatc aangacacca tegtggccaa cccctgagca 60
 cccctatcaa ctcccttttg tagtaaaactt ggaaccttgg aaatgaccag gccaaagactc 120
 aggccctccc agttctactg acctttgtcc ttangtntna ngtcagggt tgctaggaaa 180
 anaaatcagc agacacaggt gtaaa 205

<210> 219
 <211> 114
 <212> DNA
 <213> Homo sapien

<400> 219
 tactgttttg tctcagtaac aataaatata aaaagactgg ttgtgttccg gccccatcca 60
 accacgaagt tgatttctct tgtgtgcaga gtgactgatt ttaaaggaca tgga 114

<210> 220
 <211> 93
 <212> DNA
 <213> Homo sapien

<400> 220
 actagccagc acaaaaggca gggtagcctg aattgctttc tgcctctttac atttctttta 60
 aaataagcat ttagtgetca gtccctactg agt 93

<210> 221
 <211> 167

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(167)
<223> n = A,T,C or G

<400> 221
actangtgca ggtgcgcaca aatatttgtc gatattccct tcattcttga ttccatgagg 60
tcttttgccc agcctgtggc tctactgtag taagtttctg ctgatgagga gccagnatgc 120
ccccactac cttccctgac gctcccccana aatcacccaa cctctgt 167

<210> 222
<211> 351
<212> DNA
<213> Homo sapien

<400> 222
agggcgtggt gcgaggggcg gtactgacct cattagtagg aggatgcatt ctggcacccc 60
gttcttcacc tgtcccccaa tccttaaaag gccatactgc ataaagtcaa caacagataa 120
atgtttgctg aattaaagga tggatgaaaa aaattaataa tgaatttttg cataatccaa 180
ttttctcttt tatatttcta gaagaagttt ctttgagcct attagatccc gggaatcttt 240
taggtgagca tgattagaga gcttgtaggt tgcttttaca tatatctggc atatttgagt 300
ctcgtatcaa aacaatagat tggtaaaggt ggtattattg tattgataag t 351

<210> 223
<211> 383
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G

<400> 223
aaaacaaaca aacaaaaaaa acaattcttc attcagaaaa attatcttag ggactgatat 60
tggttaattat ggtcaattta atwrtrttkt ggggcatttc cttacattgt cttgacaaga 120
ttaaaatgtc tgtgccaaaa ttttgtattt tatttgagga cttcttatca aaagtaatgc 180
tgccaaagga agtctaagga attagtagtg ttcccmtcac ttgtttggag tgtgctattc 240
taaaagattt tgatttcctg gaatgacaat tatattttta ctttgggtgg ggaaanagtt 300
ataggaccac agtcttcact tctgatactt gtaaattaat cttttattgc acttgttttg 360
accattaagc tatatgttta aaa 383

<210> 224
<211> 320
<212> DNA
<213> Homo sapien

<400> 224
cccctgaagg cttcttggtta gaaaatagta cagttacaac caataggaac aacaaaaaga 60
aaaagtttgt gacattgtag tagggagtgt gtacccttta ctcccatca aaaaaaaaaat 120
ggatacatgg ttaaaggata raagggaat attttatcat atgttctaaa agagaaggaa 180

gagaaaatac tacttttctc aaatggaagc ccttaaaggt gctttgatac tgaaggacac 240
 aaatgtggcc gtccatcctc ctttaragtt gcatgacttg gacacggtaa ctgttgagc 300
 ttaractcm gcattgtgac 320

<210> 225
 <211> 1214
 <212> DNA
 <213> Homo sapien

<400> 225
 gaggactgca gcccgcactc gcagccctgg caggcggcac tggatcatgga aaacgaattg 60
 ttctgctcgg gcgtcctggt gcatccgcag tgggtgctgt cagccgcaca ctgtttccag 120
 aactcctaca ccatcggtgt gggcctgcac agtcttgagg ccgaccaaga gccagggagc 180
 cagatggtgg aggccagcct ctccgtacgg caccagagat acaacagacc cttgctcgct 240
 aacgacctca tgctcatcaa gttggacgaa tccgtgtccg agtctgacac catccggagc 300
 atcagcattg cttcgcagtg ccctaccgag gggaaactct gcctcgtttc tggctggggt 360
 ctgctggcga acggcagaat gcctaccgtg ctgcagtgcg tgaacgtgtc ggtggtgtct 420
 gaggaggtct gcagtaagct ctatgaccgg ctgtaccacc ccagcatgtt ctgcgccggc 480
 ggagggcaag accagaagga ctctgcaac ggtgactctg gggggcccct gatctgcaac 540
 gggtaacttg agggccttgt gtctttcgga aaagccccgt gtggccaagt tggcgtgcc 600
 ggtgtctaca ccaacctctg caaattcact gagtggatag agaaaaccgt ccaggccagt 660
 taactctggg gactgggaac ccatgaaatt gacccccaaa tacatcctgc ggaagggaatt 720
 caggaatata tgttcccagc ccctcctccc tcaggcccag gagtccaggc cccagcccc 780
 tctcctccta aaccaagggt acagatcccc agccccctct cctcagacc caggagtcca 840
 gacccccag cccctcctcc ctccagacca ggagtccagc cctcctccc tcagaccag 900
 gagtccagac cccccagccc ctctcctc agaccagggt gtccaggccc ccaaccctc 960
 ctccctcaga ctccagaggt caagccccc accctcctt cccagagccc agaggtccag 1020
 gtcccagccc ctctcctc agaccaggt gtccaatgcc acctagactc tccctgtaca 1080
 cagtgcctcc ttgtggcag ttgacccaac cttaccagtt ggtttttcat tttttgtccc 1140
 tttcccttag atccagaaat aaagtctaag agaagcgcaa aaaaaaaaaa aaaaaaaaaa 1200
 aaaaaaaaaa aaaa 1214

<210> 226
 <211> 119
 <212> DNA
 <213> Homo sapien

<400> 226
 accagtatg tgcagggaga cggaacccca tgtgacagcc cactccacca gggttcccaa 60
 agaactggc ccagtcataa tcattcatcc tgacagtggc aataatcacg ataaccagt 119

<210> 227
 <211> 818
 <212> DNA
 <213> Homo sapien

<400> 227
 acaattcata gggacgacca atgaggacag ggaatgaacc cggctctccc ccagccctga 60
 tttttgctac atatggggtc ctttttcatt ctttgcaaaa aactgggtt ttctgagaac 120
 acggacggtt cttagcacia tttgtgaaat ctgtgtaraa ccgggctttg caggggagat 180
 aattttcctc ctctggagga aaggtggtga ttgacaggca gggagacagt gacaaggcta 240
 gagaaagcca cgctcggcct tctctgaacc aggatggaac ggcagacccc tgaaaacgaa 300
 gcttgtcccc ttccaatcag ccacttctga gaaccccat ctaacttct actggaaaag 360
 agggcctcct caggagcagt ccaagagttt tcaaagataa cgtgacaact accatctaga 420


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ggaaaggggtg caccctcagc agagaagccg agagcttaac tctggctcgtt tccagagaca 480
acctgctggc tgtcttggga tgcgcccagc ctttgagagg ccaactaccc atgaacttct 540
gccatccact ggacatgaag ctgaggacac tgggcttcaa cactgagttg tcatgagagg 600
gacaggctct gccctcaagc cggctgaggg cagcaaccac tctcctcccc tttctcacgc 660
aaagccattc ccacaaatcc agaccatacc atgaagcaac gagaccctaa cagtttggct 720
caagaggata tgaggactgt ctcagcctgg ctttgggctg acaccatgca cacacacaag 780
gtccacttct aggttttcag cctagatggg agtcgtgt 818

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<210> 228
<211> 744
<212> DNA
<213> Homo sapien

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<400> 228
actggagaca ctgttgaact tgatcaagac ccagaccacc ccaggtctcc ttcgtgggat 60
gtcatgacgt ttgacatacc tttggaacga gcctcctcct tggaagatgg aagaccgtgt 120
tcgtggccga cctggcctct cctggcctgt ttcttaagat gcggagtcac atttcaatgg 180
taggaaaagt ggcttcgtaa aatagaagag cagtcaactgt ggaactacca aatggcgaga 240
tgctcgggtgc acattggggg gctttgggat aaaagattta tgagccaact attctctggc 300
accagattct aggccagttt gttccactga agcttttccc acagcagtc acctctgcag 360
gctggcagct gaatggcttg ccggtggctc tgtggcaaga tcacactgag atcgatgggt 420
gagaaggcta ggatgcttgt ctagtgttct tagctgtcac gttggctcct tccaggttgg 480
ccagacgggtg ttggccactc cttctaaaaa cacaggcgcc ctctgggtga cagtgaccgc 540
ccgtgggtatg ccttggccca ttccagcagt ccagttatg catttcaagt ttggggtttg 600
ttcttttctg taatgttctt ctgtgttgc agctgtcttc atttctggg ctaagcagca 660
ttgggagatg tggaccagag atccactcct taagaaccag tggcgaaaga cactttcttt 720
cttcaactctg aagtagctgg tggt 744

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<210> 229
<211> 300
<212> DNA
<213> Homo sapien

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<400> 229
cgagtctggg ttttgtctat aaagtttgat ccctcctttt ctcatccaaa tcatgtgaac 60
cattacacat cgaaataaaa gaaaggtggc agacttgccc aacgccaggc tgacatgtgc 120
tgcagggttg ttgtttttta attattattg ttagaaacgt caccacagc ccctgttaat 180
ttgtatgtga cagccaactc tgagaaggtc ctatttttcc acctgcagag gatccagtct 240
cactaggctc ctcttggccc tcacactgga gtctccgcca gtgtgggtgc ccactgacat 300

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<210> 230
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 230
cagcagaaca aatacaataa tgaagagtgc aaagatctca taaaatctat gctgaggaat 60
gagcgacagt tcaaggagga gaagcttgca gagcagctca agcaagctga ggagctcagg 120
caatataaag tcttgggtca cactcaggaa cgagagctga ccaggttaag ggagaagttg 180
cggaaggga gagatgcctc cctctcattg aatgagcatc tccaggccct cctcactccg 240
gatgaaccgg acaagtccca ggggcaggac ctccaagaaa cagacctcgg ccgcgaccac 300
g 301

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<210> 231

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<211> 301
 <212> DNA
 <213> Homo sapien

<400> 231
 gcaagcacgc tggcaaactct ctgtcaggtc agctccagag aagccattag tcatttttagc 60
 caggaactcc aagtccacat ccttggcaac tggggacttg cgcaggttag ccttgaggat 120
 ggcaacacgg gacttctcat caggaagtgg gatgtagatg agctgatcaa gacggccagg 180
 tctgaggatg gcaggatcaa tgatgtcagg ccggttggtg ccgccaatga tgaacacatt 240
 tttttttgtg gacatgccat ccattttctgt caggatctgg ttgatgactc ggtcagcagc 300
 c 301

<210> 232
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 232
 agtaggtatt tcgtgagaag ttcaacacca aaactggaac atagtctctc ttcaagtgtt 60
 ggcgacagcg gggcttctctg attctggaat ataactttgt gtaaattaac agccacctat 120
 agaagagtcc atctgctgtg aaggagagac agagaactct gggttccgtc gtcctgtcca 180
 cgtgctgtac caagtgtctg tgccagcctg ttacctgttc tcaactgaaaa tctggctaata 240
 gctcttgtgt atcacttctg attctgacaa tcaatcaatc aatggcctag agcactgact 300
 g 301

<210> 233
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 233
 atgactgact tcccagtaag gctctctaag gggtaagtag gaggatccac aggatttgag 60
 atgctaaggc cccagagatc gtttgatcca accctcttat tttcagaggg gaaaatgggg 120
 cctagaagtt acagagcatc tagctggtgc gctggcacc cctggcctcac acagactccc 180
 gagtagctgg gactacaggc acacagtcac tgaagcaggc cctgttagca attctatgog 240
 taaaaattaa catgagatga gtagagactt tattgagaaa gcaagagaaa atcctatcaa 300
 c 301

<210> 234
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 234
 aggtcctaca catcgagact catccatgat tgatatgaat ttaaaaatta caagcaaaga 60
 cattttattc atcatgatgc tttcttttgt ttcttctttt cgttttcttc tttttctttt 120
 tcaatttcag caacatactt ctcaatttct tcaggattta aaatcttgag ggattgatct 180
 cgccatcatga cagcaagtgc aatgtttttg ccacctgact gaaccacttc caggagtgcc 240
 ttgatcacca gcttaatggt cagatcatct gcttcaatgg cttcgtcagt atagtctctc 300
 t 301

<210> 235
 <211> 283
 <212> DNA

<213> Homo sapien

<400> 235

tggggctgtg	catcaggcgg	gtttgagaaa	tattcaattc	tcagcagaag	ccagaatttg	60
aattccctca	tcttttaggg	aatcatttac	caggtttga	gaggattcag	acagctcagg	120
tgctttcact	aatgtctctg	aacttctgtc	cctctttgtt	catggatagt	ccaataaata	180
atgttatctt	tgaactgatg	ctcataggag	agaatataag	aactctgagt	gatatcaaca	240
ttagggattc	aaagaaatat	tagatttaag	ctcacactgg	tca		283

<210> 236

<211> 301

<212> DNA

<213> Homo sapien

<400> 236

aggtcctcca	ccaactgcct	gaagcacggg	taaaattggg	aagaagtata	gtgcagcata	60
aatactttta	aatcgatcag	atttccctaa	cccacatgca	atcttcttca	ccagaagagg	120
tcgagcagc	atcattaata	ccaagcagaa	tgcgtaatag	ataaatacaa	tggtatatag	180
tgggtagacg	gcttcacatg	tacagtgtac	tgtggtatcg	taatctggac	ttgggttgta	240
aagcatcgtg	taccagtcag	aaagcatcaa	tactcgacat	gaacgaatat	aaagaacacc	300
a						301

<210> 237

<211> 301

<212> DNA

<213> Homo sapien

<400> 237

cagtggtagt	ggtggtggac	gtggcggttg	tcgtggtgcc	ttttttggtg	cccgtcacaa	60
actcaatttt	tgctcgctcc	tttttgccct	tttccaattt	gtccatctca	attttctggg	120
ccttggctaa	tgccatcatg	taggagtcct	cagaccagcc	atggggatca	aacatatcct	180
ttgggtagtt	ggtgccaaagc	tcgtcaatgg	cacagaatgg	atcagcttct	cgtaaactta	240
gggttccgaa	attttttctt	cctttggata	atgtagttca	tatccattcc	ctcctttatc	300
t						301

<210> 238

<211> 301

<212> DNA

<213> Homo sapien

<400> 238

gggcagggtt	tttttttttt	ttttttgatg	gtgcagaccc	ttgctttatt	tgtctgactt	60
gttcacagtt	cagccccctg	ctcagaaaac	caacgggcca	gctaaggaga	ggaggaggca	120
ccttgagact	tccggagtcg	aggctctcca	gggttcccca	gcccataaat	cattttctgc	180
acccctgcc	tgggaagcag	ctccctgggg	ggtgggaatg	ggtgactaga	agggatttca	240
gtgtgggacc	cagggtctgt	tcttcacagt	aggaggtgga	agggatgact	aattttctta	300
t						301

<210> 239

<211> 239

<212> DNA

<213> Homo sapien

<400> 239

ataagcagct	agggaattct	ttatttagta	atgtcctaac	ataaaagttc	acataactgc	60
ttctgtcaaa	ccatgatact	gagctttgtg	acaaccaga	aataactaag	agaaggcaaa	120
cataatacct	tagagatcaa	gaaacattta	cacagttcaa	ctgtttaaaa	atagctcaac	180
attcagccag	tgagtagagt	gtgaatgcc	gcatacacag	tatacaggtc	cttcaggga	239

<210> 240

<211> 300

<212> DNA

<213> Homo sapien

<400> 240

ggtcctaattg	aagcagcagc	ttccacattt	taacgcaggt	ttacgggtgat	actgtccttt	60
gggatctgcc	ctccagtga	accttttaag	gaagaagtgg	gccaagcta	agttccacat	120
gctgggtgag	ccagatgact	tctgttccct	ggtcactttc	ttcaatgggg	cgaatggggg	180
ctgccaggtt	tttaaaatca	tgcttcatct	tgaagcacac	ggtcacttca	ccctcctcac	240
gctgtgggtg	tactttgatg	aaaataccca	ctttgttggc	ctttctgaag	ctataatgtc	300

<210> 241

<211> 301

<212> DNA

<213> Homo sapien

<400> 241

gaggtctggt	gctgaggtct	ctgggctagg	aagaggagtt	ctgtggagct	ggaagccaga	60
cctctttgga	ggaaactcca	gcagctatgt	tggtgtctct	gagggaatgc	aacaaggctg	120
ctcctccatg	tattggaaaa	ctgcaactg	gactcaactg	gaagggaagt	ctgctgccag	180
tgtgaagaac	cagcctgagg	tgacagaaac	ggaagcaaac	aggaacagcc	agtcttttct	240
tcctcctcct	gtcatacggg	ctctctcaag	catcctttgt	tgtcaggggc	ctaaaaggga	300

g

<210> 242

<211> 301

<212> DNA

<213> Homo sapien

<400> 242

ccgaggtcct	gggatgcaac	caatcactct	gtttcacgtg	acttttatca	ccatacaatt	60
tgtggcattt	cctcattttc	tacattgtag	aatcaagagt	gtaaataaat	gtatatcgat	120
gtcttcaaga	atataatcatt	cctttttcac	tagaaccat	tcaaaatata	agtcaagaat	180
cttaatatca	acaaatatat	caagcaaact	ggaaggcaga	ataactacca	taatttagta	240
taagtacca	aagttttata	aatcaaaaagc	cctaatagata	accattttta	gaattcaatc	300

a

<210> 243

<211> 301

<212> DNA

<213> Homo sapien

<400> 243

aggtaagtcc	cagtttgaag	ctcaaaaagat	ctggtatgag	cataggctca	tcgacgacat	60
ggtggcccaa	gctatgaaat	cagagggagg	cttcatctgg	gcctgtaaaa	actatgatgg	120
tgacgtgcag	tcggactctg	tggcccaagg	gtatggctct	ctcggcatga	tgaccagcgt	180
gctggtttgt	ccagatggca	agacagtaga	agcagaggct	gccacggga	ctgtaaccgg	240
tcactaccgc	atgttccaga	aaggacagga	gacgtccacc	aatccattg	cttccatttt	300

t

301

<210> 244
 <211> 300
 <212> DNA
 <213> Homo sapien

<400> 244
 gctggtttgc aagaatgaaa tgaatgattc tacagctagg acttaacctt gaaatggaaa 60
 gtcattgcaat cccatttgca ggatctgtct gtgcacatgc ctctgtagag agcagcattc 120
 ccaggacac tggaaacagt tgacactgta aggtgcttgc tcccccaagac acatcctaaa 180
 aggtgttgta atggtgaaaa cgtcttcctt ctttattgcc ccttcttatt tatgtgaaca 240
 actggtttgct ttttgtgtat cttttttaaa ctgtaaagtt caattgtgaa aatgaatatc 300

<210> 245
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 245
 gtctgagtat ttaaaatggt attgaaatta tcccccaacca atgttagaaa agaaagaggt 60
 tatatactta gataaaaaat gaggtgaatt actatccatt gaaatcatgc tcttagaatt 120
 aaggccagga gatattgtca ttaatgtara cttcaggaca ctagagtata gcagccctat 180
 gttttcaaag agcagagatg caattaaata ttgttttagca tcaaaaaggc cactcaatac 240
 agctaataaa atgaaagacc taatttctaa agcaattcct tataatttac aaagttttta 300
 g 301

<210> 246
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 246
 ggtctgtcct acaatgcttg cttcttgaaa gaagtcggca ctttctagaa tagctaaata 60
 acctgggctt atttttaaaga actatttgta gctcagattg gttttcctat ggctaaaata 120
 agtgccttct gtgaaaatta aataaaacag ttaattcaaa gccttgatat atgttaccac 180
 taacaatcat actaaatata ttttgaagta caaagtttga catgctctaa agtgacaacc 240
 caaatgtgtc ttacaaaaca cgttcctaac aaggtatgct ttacactacc aatgcagaaa 300
 c 301

<210> 247
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 247
 aggtcctttg gcagggtcga tggatcagag ctcaaactgg agggaaaggc atttcgggta 60
 gcctaagagg gcgactggcg gcagcacaac caaggaaggc aaggttggtt cccccacgct 120
 gtgtcctgtg ttcagggtcg acacacaatc ctcatgggaa caggatcacc catgcgctgc 180
 ccttgatgat caaggttggg gcttaagtgg attaaggag gcaagttctg ggttccttgc 240
 cttttcaaac catgaagtca ggctctgtat ccctcctttt cctaactgat attctaacta 300
 a 301

<210> 248

<211> 301
 <212> DNA
 <213> Homo sapien

<400> 248
 aggtccttgg agatgccatt tcagccgaag gactcttctw ttcggaagta caccctcact 60
 attaggaaga ttcttagggg taatttttct gaggaaggag aactagccaa cttagaatt 120
 acaggaagaa agtgggttgg aagacagcca aagaaataaa agcagattaa attgtatcag 180
 gtacattcca gcctgttggc aactccataa aaacatttca gattttaatc ccgaatttag 240
 ctaatgagac tggatttttg ttttttatgt tgtgtgtcgc agagctaaaa actcagttcc 300
 c 301

<210> 249
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 249
 gtccagagga agcacctggt gctgaactag gcttgccctg ctgtgaactt gcacttggag 60
 ccttgacgct gctgttctcc ccgaaaaacc cgaccgacct ccgcgatctc cgtcccgccc 120
 ccagggagac acagcagtga ctcagagctg gtcgcacact gtgcctccct cctcaccgcc 180
 catcgtaatg aattattttg aaaattaatt ccaccatcct ttcagattct ggatggaaag 240
 actgaatctt tgactcagaa ttgtttgctg aaaagaatga tgtgactttc ttagtcattt 300
 a 301

<210> 250
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 250
 ggtctgtgac aaggacttgc aggctgtggg aggcaagtga cccttaaacac tacacttctc 60
 cttatcttta ttggcttgat aaacataatt atttctaaca ctagcttatt tccagttgcc 120
 cataagcaca tcagtacttt tctctggctg gaatagtaaa ctaaagtatg gtacatctac 180
 ctaaaaagact actatgtgga ataatacata ctaatgaagt attacatgat ttaaagacta 240
 caataaaaacc aaacatgctt ataacattaa gaaaaacaat aaagatacat gattgaaacc 300
 a 301

<210> 251
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 251
 gccgaggtcc tacatttggc ccagtttccc cctgcctcct ctccagggcc cctgcctcat 60
 agacaacctc atagagcata ggagaactgg ttgccctggg ggcaggggga ctgtctggat 120
 ggcaggggtc ctcaaaaatg ccactgtcac tgccaggaaa tgcttctgag cagtacacct 180
 cattgggatc aatgaaaagc ttcaagaaat cttcaggctc actctcttga aggcccgga 240
 cctctggagg ggggcagtgg aatcccagct ccaggacgga tcctgtcgaa aagatatact 300
 c 301

<210> 252
 <211> 301
 <212> DNA

<213> Homo sapien

<400> 252

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gcaaccaatc actctgtttc acgtgacttt tatcaccata caatttgtgg catttctca    60
ttttctacat tgtagaatca agagtgtaaa taaatgtata tcgatgtctt caagaatata    120
tcattccttt ttacttagga acccattcaa aatataagtc aagaatctta atatcaacaa    180
atatatcaag caaactggaa ggcagaataa ctaccataat ttagtataag tacccaaagt    240
tttataaatc aaaagcccta atgataacca tttttagaat tcaatcatca ctgtagaatc    300
a                                          301
```

<210> 253

<211> 301

<212> DNA

<213> Homo sapien

<400> 253

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ttccctaaga agatgttatt ttgttgggtt ttgttccccc tccatctcga ttctcgtacc    60
caactaaaaa aaaaaaataa agaaaaaatg tgctgcgttc tgaaaaataa ctccttagct    120
tggtctgatt gttttcagac cttaaaatat aaacttgttt cacaagcttt aatccatgtg    180
gatttttttt cttagagaac cacaaaacat aaaaggagca agtcggactg aatacctgtt    240
tccatagtgc ccacagggtg ttcttcacat tttctccata ggaaaatgct ttttcccaag    300
g                                          301
```

<210> 254

<211> 301

<212> DNA

<213> Homo sapien

<400> 254

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cgctgcgcct ttcccttggg ggagggggcaa ggccagaggg ggtccaagtg cagcacgagg    60
aacttgacca attcccttga agcgggtggg ttaaaccctg taaatgggaa caaatcccc    120
ccaaatctct tcatcttacc ctggtggact cctgactgta gaattttttg gttgaaacaa    180
gaaaaaaata agcttttggg cttttcaagg ttgcttaaca ggtactgaaa gactggcctc    240
acttaaaactg agccaggaaa agctgcagat ttattaatgg gtgtgttagt gtgcagtgcc    300
t                                          301
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<210> 255

<211> 302

<212> DNA

<213> Homo sapien

<400> 255

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agcttttttt tttttttttt tttttttttt ttcattaaaa aatagtgtct tttattataa    60
attactgaaa tgtttctttt ctgaatataa atataaatat gtgcaaagtt tgacttggat    120
tggtgatttg ttgagttctt caagcatctc ctaataccct caagggcctg agtagggggg    180
aggaaaaagg actggagggt gaatctttat aaaaaacaag agtgattgag gcagattgta    240
aacattatta aaaaacaaga aacaaacaaa aaaatagaga aaaaaaccac cccaacacac    300
aa                                          302
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<210> 256

<211> 301

<212> DNA

<213> Homo sapien

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<220>  
<221> misc_feature  
<222> (1)...(301)  
<223> n = A,T,C or G
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<400> 259

tcatatatgc	aaacaaatgc	agactangcc	tcaggcagag	actaaaggac	atctcttggg	60
gtgtcctgaa	gtgatttgga	cccctgaggg	cagacaccta	agtaggaatc	ccagtgggaa	120
gcaaagccat	aaggaagccc	aggattcctt	gtgatcagga	agtgggccag	gaaggctctgt	180
tccagctcac	atctcatctg	catgcagcac	ggaccggatg	cgcccaactgg	gtcttgggctt	240
ccctcccatc	ttctcaagca	gtgtccttgt	tgagccattt	gcctccttgg	ctccaggtgg	300
c						301

<210> 260

<211> 301

<212> DNA

<213> Homo sapien

<400> 260

tttttttttct	ccctaaggaa	aaagaaggaa	caagtctcat	aaaaccaa	aagcaatggt	60
aagggtgtctt	aacttgaaaa	agattaggag	tcaactggtt	acaagttata	attgaatgaa	120
agaactgtaa	cagccacagt	tggccatttc	atgccaatgg	cagcaaacia	caggattaac	180
tagggcaaaa	taaataagt	tgtggaagcc	ctgataagt	cttaataaac	agactgattc	240
actgagacat	cagtacctgc	ccgggcggcc	gtctgagccg	aattctgcag	atatccatca	300
c						301

<210> 261

<211> 301

<212> DNA

<213> Homo sapien

<400> 261

aaatatctga	gcaaactctg	taactaatgt	gtctccataa	aaggctttga	actcagtga	60
tctgtttcca	tccacgattc	tagcaatgac	ctctcggaca	tcaaagctcc	tcttaagggt	120
agcaccaact	attccataca	attcatcagc	aggaaataaa	ggctcttcag	aagggttcaat	180
ggtgacatcc	aatttcttct	gataatttag	attcctcaca	accttcctag	ttaagtgaag	240
ggcatgatga	tcattccaaag	cccagtggtc	acttactcca	gactttctgc	aatgaagatc	300
a						301

<210> 262

<211> 301

<212> DNA

<213> Homo sapien

<400> 262

gaggagagcc	tggtacagca	tttgtaagca	cagaatactc	caggagtatt	tgtaattgtc	60
tgtgagcttc	ttgccgcaag	tctctcagaa	atttaaaaag	atgcaaatacc	ctgagtcacc	120
cctagacttc	ctaaaccaga	tcctctgggg	ctggaacctg	gcactctgca	tttgtaatga	180
gggctttctg	gtgcacacct	aattttgtgc	atctttgccc	taaatacctgg	attagtgc	240
catcattacc	cccacattat	aatgggatag	attcagagca	gatactctcc	agcaaagaat	300
c						301

<210> 263

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(301)

<223> n = A,T,C or G

<400> 263

tttagcttgt	ggtaaagac	tcacaaaact	gattttaaaa	tcaagttaat	gtgaattttg	60
aaaattacta	cttaaatccta	attcacaaata	acaatggcat	taaggtttga	cttgagttgg	120
ttcttagtat	tatttatggg	aaataggctc	ttaccacttg	caaataactg	gccacatcat	180
taatgactga	cttcccagta	aggctctcta	aggggtaagt	angaggatcc	acaggatttg	240
agatgctaag	gccccagaga	tcgtttgatc	caaccctctt	attttcagag	gggaaaatgg	300
g						301

<210> 264

<211> 301

<212> DNA

<213> Homo sapien

<400> 264

aaagacgtta	aaccactcta	ctaccacttg	tggaactctc	aaagggtaaa	tgacaaaasc	60
aatgaatgac	tctaaaaaca	atattttacat	ttaatggttt	gtagacaata	aaaaaacaag	120
gtggatagat	ctagaattgt	aacattttta	gaaaaccata	scatttgaca	gatgagaaaag	180
ctcaattata	gatgcaaat	tataactaaa	ctactatagt	agtaaagaaa	tacatttcac	240
acccttcata	taaattcact	atcttggtct	gaggcactcc	ataaaatgta	tcacgtgcat	300
a						301

<210> 265

<211> 301

<212> DNA

<213> Homo sapien

<400> 265

tgcccaagtt	atgtgtaagt	gtatccgcac	ccagaggtaa	aactacactg	tcctctttgt	60
cttcttgtga	cgcagtattt	cttctctggg	gagaagccgg	gaagtcttct	cctggctcta	120
catattcttg	gaagtctcta	atcaactttt	gttccatttg	tttcatttct	tcaggaggga	180
ttttcagttt	gtcaacatgt	tctctaacaa	cacttgccca	tttctgtaaa	gaatccaaag	240
cagtccaagg	ctttgacatg	tcaacaacca	gcataactag	agtatccttc	agagatacgg	300
c						301

<210> 266

<211> 301

<212> DNA

<213> Homo sapien

<400> 266

taccgtctgc	ccttctctcc	atccaggcca	tctgcgaatc	tacatgggtc	ctcctattcg	60
acaccagatc	actctttcct	ctaccacag	gcttgctatg	agcaagagac	acaacctcct	120
ctcttctgtg	ttccagcttc	ttttcctggt	cttcccaccc	cttaagttct	attcctgggg	180
atagagacac	caatacccat	aaactctctc	ctaagcctcc	ttataaccga	gggtgcacag	240
cacagactcc	tgacaactgg	taaggccaat	gaactgggag	ctcacagctg	gctgtgcctg	300
a						301

<210> 267

<211> 301

<212> DNA

<213> Homo sapien

<400> 267

aaagagcaca	ggccagctca	gcctgccctg	gccatctaga	ctcagcctgg	ctccatgggg	60
gttctcagtg	ctgagtcocat	ccaggaaaag	ctcacctaga	ccttctgagg	ctgaatcttc	120
atcctcacag	gcagcttctg	agagcctgat	attcctagcc	ttgatgggtct	ggagtaaagc	180
ctcattctga	ttcctctcct	tcttttcttt	caagttggct	ttcctcacat	ccctctgttc	240
aattcgcttc	agcttgtctg	ctttagccct	catttccaga	agcttcttct	ctttggcatc	300
t						301

<210> 268

<211> 301

<212> DNA

<213> Homo sapien

<400> 268

aatgtctcac	tcaactactt	cccagcctac	cgtggcctaa	ttctgggagt	tttcttctta	60
gatcttggga	gagctgggtc	ttctaaggag	aaggaggaag	gacagatgta	actttggatc	120
tcgaagagga	agtctaattg	aagtaattag	tcaacgggtcc	ttgttttagac	tcttgggaata	180
tgctgggtgg	ctcagtgagc	ccttttggag	aaagcaagta	ttattcttaa	ggagtaacca	240
cttcccatgg	ttctactttc	taccatcatc	aattgtatat	tatgtattct	ttggagaact	300
a						301

<210> 269

<211> 301

<212> DNA

<213> Homo sapien

<400> 269

taacaatata	cactagctat	ctttttaact	gtccatcatt	agcaccaatg	aagattcaat	60
aaaattacct	ttattcacac	atctcaaaac	aattctgcaa	attcttagtg	aagtttaact	120
atagtcacag	accttaaata	ttcacattgt	tttctatgtc	tactgaaaat	aagttcacta	180
cttttctgga	tattctttac	aaaatcttat	taaaattcct	ggtattatca	cccccaatta	240
tacagtagca	caaccacctt	atgtagtttt	tacatgatag	ctctgtagaa	gtttcacatc	300
t						301

<210> 270

<211> 301

<212> DNA

<213> Homo sapien

<400> 270

cattgaagag	cttttgcgaa	acatcagaac	acaagtgcct	ataaaattaa	ttaagcctta	60
cacaagaata	catattcctt	ttatttctaa	ggagttaaac	atagatgtag	ctgatgtgga	120
gagcttgcct	gtgcagtgca	tattggataa	cactattcat	ggccgaattg	atcaagtcaa	180
ccaactcctt	gaactggatc	atcagaagaa	gggtggtgca	cgatatactg	cactagataa	240
tggaaccaacc	aactaaattc	tctcaccagg	ctgtatcagt	aaactggcct	aacagaaaac	300
a						301

<210> 271

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 271
 aaaaggttct cataagatta acaattttaa taaatatttg atagaacatt ctttctcatt 60
 tttatagctc atcttttaggg ttgatattca gttcatgctt cccttgctgt tcttgatcca 120
 gaattgcaat cacttcatca gcctgtattc gctccaattc tctataaagt gggccaagg 180
 tgaaccacag agccacagca cacctctttc ccttggtgac tgccttcacc ccatganggt 240
 tctctcctcc agatganaac tgatcatgcg cccacatttt gggttttata gaagcagtca 300
 c 301

<210> 272
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 272
 taaattgcta agccacagat aacaccaatc aaatggaaca aatcactgtc ttcaaagtgc 60
 ttatcagaaa accaaatgag cctggaatct tcataatacc taaacatgcc gtatttagga 120
 tccaataatt ccctcatgat gagcaagaaa aattctttgc gcacccctcc tgcattccaca 180
 gcatcttctc caacaaatat aaccttgagt ggcttcttgt aatctatgtt ctttgttttc 240
 ctaaggactt ccattgcatt tcctacaata ttttctctac gcaccactag aattaagcag 300
 g 301

<210> 273
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 273
 acatgtgtgt atgtgtatct ttgggaaan aanaagacat cttgtttayt atttttttgg 60
 agagangctg ggacatggat aatcacwtaa tttgctayta tyactttaat ctgactygaa 120
 gaaccgtcta aaaataaaat ttaccatgct dtatattcct tatagtatgc ttatttcacc 180
 ttytttctgt ccagagagag tatcagtgac ananatttma ggggtgaamac atgmattggg 240
 gggacttnty tttacngagm accctgcccg sgcgcctcctg makcngantt ccgcsananc 300
 t 301

<210> 274
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 274

```

cttatatact ctttctcaga ggcaaaagag gagatgggta atgtagacaa ttctttgagg      60
aacagtaaatt gattattaga gagaangaat ggaccaagga gacagaaatt aacttgtaaa      120
tgattctctt tggaatctga atgagatcaa gaggccagct ttagcttggt gaaaagtcca      180
tctaggtatg gttgcattct cgtcttcttt tctgcagtag ataatgaggt aaccgaaggc      240
aattgtgctt cttttgataa gaagctttct tggtcatatc aggaaattcc aganaaagtc      300
c                                                                           301

```

```

<210> 275
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 275
tcggtgtcag cagcacgtgg cattgaacat tgcaatgtgg agcccaaacc acagaaaatg      60
gggtgaaatt ggccaacttt ctattaactt atgttggcaa ttttgccacc aacagtaagc      120
tggtcccttct aataaaaagaa aattgaaagg tttctcacta aacggaatta agtagtggag      180
tcaagagact cccaggcctc agcgtacctg cccggggcggc cgctcgaagc cgaattctgc      240
agatatccat cacactggcg gncgctcgan catgcatcta gaaggnccaa ttcgccctat      300
a                                                                           301

```

```

<210> 276
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 276
tgtacacata ctcaataaat aaatgactgc attgtggtat tattactata ctgattatat      60
ttatcatgtg acttctaatt agaaaatgta tccaaaagca aaacagcaga tatacaaaat      120
taaagagaca gaagatagac attaacagat aaggcaactt atacattgag aatccaaatc      180
caatacattt aaacatttgg gaaatgaggg ggacaaatgg aagccagatc aaatttgtgt      240
aaaactattc agtatgtttc ccttgcttca tgtctgagaa ggctctcctt caatggggat      300
g                                                                           301

```

```

<210> 277
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 277
tttgttgatg tcagtatttt attacttgcg ttatgagtgc tcacctggga aattctaaag      60
atacagagga cttggaggaa gcagagcaac tgaatttaat ttaaaagaag gaaaacattg      120
gaatcatggc actcctgata ctttcccaaa tcaacactct caatgcccc aacctgctct      180
caccatagtg gggagactaa agtggccacg gatttgcctt angtgtgcag tgcgttctga      240
gttcnctgtc gattacatct gaccagtctc ctttttccga agtccttccg ttcaatcttg      300

```

c

301

<210> 278
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 278
 taccactaca ctccagcctg ggcaacagag caagacctgt ctcaaagcat aaaatggaat 60
 aacatatcaa atgaaacagg gaaaatgaag ctgacaattt atggaagcca gggcttgtca 120
 cagtctctac tggtattatg cattacctgg gaatttatat aagcccttaa taataatgcc 180
 aatgaacatc tcatgtgtgc tcacaatggt ctggcactat tataagtgtc tcacagggtt 240
 tatgtgttct tcgtaacttt atggantagg tactcggccg cgaacacgct aagccgaatt 300
 c 301

<210> 279
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 279
 aaagcaggaa tgacaaagct tgcttttctg gtatgttcta ggtgtattgt gacttttact 60
 gttatattaa ttgccaatat aagtaaatat agattatata tgtatagtgt ttcacaaagc 120
 ttagaccttt accttcacgc caccacacag tgcttgatat ttcagagtca gtcattgggt 180
 atacatgtgt agttccaaag cacataagct agaanaanaa atatttctag ggagcactac 240
 catctgtttt cacatgaaat gccacacaca tagaactcca acatcaattt cattgcacag 300
 a 301

<210> 280
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 280
 ggtactggag ttttctctcc ctgtgaaaac gtaactactg ttgggagtga attgaggatg 60
 tagaaaggtg gtggaaccaa attgtggtca atggaaatag gagaatatgg ttctcactct 120
 tgagaaaaaa acctaagatt agcccaggta gttgcctgta acttcagttt ttctgcctgg 180
 gtttgatata gtttaggggt ggggttagat taagatctaa attacatcag gacaaagaga 240
 cagactatta actccacagt taattiaagga ggtatgttcc atgtttattt gttaaagcag 300
 t 301

<210> 281
 <211> 301
 <212> DNA

<213> Homo sapien

<400> 281

```

aggtacaaga aggggaatgg gaaagagctg ctgctgtggc attgttcaac ttggatattc      60
gccgagcaat ccaaatoctg aatgaagggg catcttctga aaaaggagat ctgaatctca      120
atgtggtagc aatggcttta tcgggttata cggatgagaa gaactccctt tggagagaaa      180
tgtgtagcac actgcgatta cagctaaata acccgatttt gtgtgtcatg tttgcatttc      240
tgacaagtga aacaggatct tacgatggag ttttgtatga aaacaaagtt gcagtacctc      300
g                                                                                   301

```

<210> 282

<211> 301

<212> DNA

<213> Homo sapien

<400> 282

```

caggtactac agaattaaaa tactgacaag caagtagttt cttggcgtgc acgaattgca      60
tccagaaccc aaaaattaag aaattcaaaa agacattttg tgggcacctg ctagcacaga      120
agcgcagaag caaagcccag gcagaaccat gctaacctta cagctcagcc tgcacagaag      180
cgcagaagca aagcccaggc agaaccatgc taaccttaca gctcagcctg cacagaagcg      240
cagaagcaaa gcccaggcag aacatgctaa ccttacagct cagcctgcac agaagcacag      300
a                                                                                   301

```

<210> 283

<211> 301

<212> DNA

<213> Homo sapien

<400> 283

```

atctgtatac ggcagacaaa ctttatarag tgtagagagg tgagcgaaag gatgcaaaag      60
cactttgagg gctttataat aatatgctgc ttgaaaaaaa aaatgtgtag ttgatactca      120
gtgcatctcc agacatagta aggggttgct ctgaccaatc aggtgatcat tttttctatc      180
acttcccagg ttttatgcaa aaattttggt aaattctata atggtgatat gcattcttta      240
ggaaacatat acatttttta aaatctatct tatgtaagaa ctgacagacg aatttgcttt      300
g                                                                                   301

```

<210> 284

<211> 301

<212> DNA

<213> Homo sapien

<400> 284

```

caggtacaaa acgctattaa gtggcttaga atttgaacat ttgtggtctt tatttacttt      60
gcttcgtgtg tgggcaaagc aacatcttcc ctaaatatat attaccaaga aaagcaagaa      120
gcagattagg tttttgacaa aacaaacagg ccaaaagggg gctgacctgg agcagagcat      180
ggtgagaggc aaggcatgag agggcaagtt tgttgtggac agatctgtgc ctactttatt      240
actggagtaa aagaaaaaaa agttcattga tgtcgaagga tatatacagt gttagaaatt      300
a                                                                                   301

```

<210> 285

<211> 301

<212> DNA

<213> Homo sapien

<400> 285

<210> 286

$\langle 211 \rangle$ 301

<212> DNA

<213> Homo sapien

<400> 286

taccactgca	ttccagcctg	ggtgacagag	tgagactccg	tctccaaaaa	aaactttgct	60
tgtatattat	ttttgcctta	cagtg gatca	ttctagtagg	aaaggacagt	aagatttttt	120
atcaaaatgt	gtcatgccc	taagagatgt	tatattcttt	tctcatttct	tccccacca	180
aaaataagct	accatatagc	ttataagtct	caaatttttg	ccttttacta	aaatgtgatt	240
gtttctgttc	attgtgtatg	cttcattcac	tatatttaggc	aaattccatt	ttttcccttg	300
+						301

<210> 287

<211> 301

<212> DNA

<213> Homo sapien

<400> 287

tacagatctg	ggaactaaat	attaaaaatg	agtgtggctg	gatatatgga	gaatgttggg	60
cccagaagga	acgtatagat	cagatattac	aacagctttg	ttttgagggg	tagaaatatg	120
aaatgatttg	gttatgaacg	cacagtttag	gcagcagggc	cagaatcctg	accctctgcc	180
ccgtggttat	ctcctcccca	gcttggctgc	ctcatgttat	cacagtattc	cattttgttt	240
gttgcatgtc	ttgtgaagcc	atcaagattt	tctcgtctgt	tttctctca	ttggtaatgc	300
t						301

<210> 288

<211> 301

<212> DNA

<213> Homo sapien

<400> 288

gtacaccta	ctgcaaggac	agctgaggaa	tgtaatgggc	agccgctttt	aaagaagtag	60
agtcaatag	aagacaaatt	ccagttccag	ctcagtcctg	gtatctgcaa	agctgcaaaa	120
gatctttaaa	gacaatttca	agagaatatt	tccttaaagt	tggcaatttg	gagatcatac	180
aaaagcatct	gcttttgtga	tttaatttag	ctcatctggc	cactggaaga	atccaaacag	240
tctgccttaa	ttttggatga	atgcatgatg	gaaattcaat	aatttagaaa	gttaaaaaaa	300
a						301

<210> 289

$\langle 211 \rangle$ 301

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

<400> 289
ggtacactgt ttccatgtta tgtttctaca cattgctacc tcagtgtcc tggaaactta 60
gcttttgatg tctccaagta gtccaccttc atttaactct ttgaaactgt atcatcttg 120
ccaagtaaga gtggtggcct atttcagctg ctttgacaaa atgactggct cctgacttaa 180
cgttctataa atgaatgtgc tgaagcaaag tgcccaggt ggcggcgaan aagagaaaga 240
tgtgttttgt tttggactct ctgtggtccc ttccaatgct gtgggtttcc aaccagnnga 300
a 301

<210> 290
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

<400> 290
acactgagct cttcttgata aatatacaga atgcttggca tatacaagat tctatactac 60
tgactgatct gttcatttct ctcacagctc ttaccccaa aagcttttcc accctaagt 120
ttctgacctc cttttctaata cacagtaggg atagaggcag anccacctac aatgaacatg 180
gagttctatc aagaggcaga aacagcacag aatcccagtt ttaccattcg ctagcagtgc 240
tgccctgaac aaaaacattt ctccatgtct cattttcttc atgcctcaag taacagtgag 300
a 301

<210> 291
<211> 301
<212> DNA
<213> Homo sapien

<400> 291
caggtacca tttcttctat cctagaaaca tttcatttta tgttgttgaa acataacaac 60
tatatcagct agattttttt tctatgcttt acctgctatg gaaaatttga cacattctgc 120
tttactcttt tgtttatagg tgaatcacia aatgtatttt tatgtattct gtagttcaat 180
agccatggct gtttacttca ttttaatttat ttagcataaa gacattatga aaaggcctaa 240
acatgagctt cacttcccca ctaactaatt agcatctggt atttcttaac cgtaatgcct 300
a 301

<210> 292
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature

<223> n = A, T, C or G

acctttttagt	agtaatgtct	aataataaat	aagaaatcaa	ttttataagg	tocatatagc	60
tgtatttaagt	aatttttaag	tttaaaagat	aaaataccat	catttttaaat	gttggtattc	120
aaaaccaaaag	natataaccg	aaaggaaaaa	cagatgagac	ataaaatgat	ttgcnagatg	180
ggaaatatag	tasttyatga	atgttnatta	aattccagtt	ataatagtgg	ctacacactc	240
tcactacaca	cacagacccc	acagtcctat	atgccacaaa	cacatttcca	taacttgaaa	300
a						301

<213> Homo sapien

ggtaccaagt	gctgggtgcca	gcctgtttacc	tgtttctcact	gaaaagtctg	gctaattgctc	60
tttgtgtagtc	actttgtgatt	ctgacaatca	atcaatcaat	ggcctagagc	actgactgtt	120
aacacaaacg	tcaactagcaa	agtagcaaca	gctttaagtc	taaatacaaa	gctgtttctgt	180
gtgagaatth	tttaaaaggc	tactttgtata	ataacccttg	tcatthtttaa	tgtacctcgg	240
ccgcgaccac	gctaagccga	attctgcaga	tatccatcac	actggcggcc	gctcgagcat	300
g						301

<213> Homo sapien

$\langle 223 \rangle$ n = A, T, C or G

tgacccataa	caatatacac	tagctatctt	tttaactgtc	catcattagc	accaatgaag	60
attcaataaa	attaccttta	ttcacacatc	tcaaaacaat	tctgcaaatt	cttagtgaag	120
tttaactata	gtcacaganc	ttaaatattc	acattgtttt	ctatgtctac	tgaaaataag	180
ttcactactt	ttctgggata	ttctttacaa	aatcttatta	aaattcctgg	tattatcacc	240
ccaattata	cagtagcaca	accaccttat	gtagttttta	catgatagct	ctgtagaggt	300
t						301

<213> Homo sapien

gtactctttc	tctccctctc	tctgaattta	attctttcaa	cttgcaattt	gcaaggatta	60
cacatttcac	tgtgatgat	attgtgttgc	aaaaaaaaa	gtgtctttgt	ttaaaattac	120
ttggtttgtg	aatccatctt	gctttttccc	cattggaact	agtcattaac	ccatctctga	180
actggtagaa	aaacrtctga	agagctagtc	tatcagcatc	tgacagggtga	attggatggg	240
tctcagaacc	atttcaccca	gacagcctgt	ttctatcctg	tttaataaat	tagtttgggt	300
tctct						305

<210> 296
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 296
 aggtactatg ggaagctgct aaaataatat ttgatagtaa aagtatgtaa tgtgctatct 60
 cacctagtag taaactaaaa ataaactgaa actttatgga atctgaagtt attttccttg 120
 attaaataga attaataaac caatatgagg aaacatgaaa ccatgcaatc tactatcaac 180
 tttgaaaaag tgattgaacg aaccacttag ctttcagatg atgaacactg ataagtcatt 240
 tgtcattact ataaatttta aaatctgtta ataagatggc ctatagggag gaaaaagggg 300
 c 301

<210> 297
 <211> 300
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(300)
 <223> n = A,T,C or G

<400> 297
 actgagtttt aactggacgc caagcaggca aggctggaag gttttgctct ctttgctgcta 60
 aagggttttga aaaccttgaa ggagaatcat tttgacaaga agtacttaag agtctagaga 120
 acaaagangt gaaccagctg aaagctctcg ggggaanctt acatgtgttg ttaggcctgt 180
 tccatcattg ggagtgcact ggccatccct caaaatttgt ctgggctggc ctgagtggtc 240
 accgcacctc ggccgcgacc acgctaagcc gaattctgca gatatccatc acactggcgg 300

<210> 298
 <211> 301
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 298
 tatggggttt gtcacccaaa agctgatgct gagaaaggcc tccctggggc ccctcccgcg 60
 ggcatctgag agacctggtg ttccagtgtt tctggaaatg ggtcccagtg ccgcccggctg 120
 tgaagctctc agatcaatca cgggaagggc ctggcgggtg tggccacctg gaaccacctt 180
 gtccctgtctg ttacatttc actaycaggt tttctctggg cattacnatt tgttccccta 240
 caacagtgac ctgtgcattc tgctgtggcc tgctgtgtct gcaggtggct ctcagcgagg 300
 t 301

<210> 299
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 299

```

gttttgagac ggagtttcac tttgtttgcc cagactggac tgcaatggca ggggtctctgc      60
tcactgcacc ctctgcctcc caggttcgag caattctcct gcctcagcct cccaggtagc      120
tgggattgca ggctcacgcc accataccca gctaattttt ttgtattttt agtagagacg      180
gagtttcgcc atgttgcca gctgggtctca aactcctgac ctcaagcgac ctgcctgcct      240
cggcctccca aagtgctgga attataggca tgagtcaaca cgcccagcct aaagatattt      300
t                                                                                   301

```

<210> 300

<211> 301

<212> DNA

<213> Homo sapien

<400> 300

```

attcagtttt atttgctgcc ccagtatctg taaccaggag tgccacaaaa tcttgccaga      60
tatgtccac acccactggg aaaggctccc acctggctac ttcctctatc agctgggtca      120
gctgcattcc acaaggttct cagcctaatt agtttcaact cctgccagtc tcaaaactta      180
gtaaagcaag accatgacat tccccacgg aaatcagagt ttgccccacc gtcttggttac      240
tataaagcct gcctctaaca gtcttgctt cttcacacca atcccgagcg catcccccat      300
g                                                                                   301

```

<210> 301

<211> 301

<212> DNA

<213> Homo sapien

<400> 301

```

ttaaattttt gagaggataa aaaggacaaa taatctagaa atgtgtcttc ttcagtctgc      60
agaggacccc aggtctccaa gcaaccacat ggtcaagggc atgaataatt aaaagttggt      120
gggaactcac aaagaccctc agagctgaga caccacaaac agtgggagct cacaagacc      180
ctcagagctg agacaccac aacagtggga gctcacaaag accctcagag ctgagacacc      240
cacaacagca cctcgttcag ctgccacatg tgtgaataag gatgcaatgt ccagaagtgt      300
t                                                                                   301

```

<210> 302

<211> 301

<212> DNA

<213> Homo sapien

<400> 302

```

aggtacacat ttagcttgtg gtaaattgact cacaaaactg attttaaaat caagttaatg      60
tgaattttga aaattactac ttaatcctaa ttcacaataa caatggcatt aaggtttgac      120
ttgagttggt tottagtatt atttatggta aataggctct taccacttgc aaataactgg      180
ccacatcatt aatgactgac ttcccagtaa ggctctctaa ggggtaagta ggaggatcca      240
caggatttga gatgctaagg cccagagat cgtttgatcc aaccctctta ttttcagagg      300
g                                                                                   301

```

<210> 303

<211> 301

<212> DNA

<213> Homo sapien

<400> 303

```

aggtaccaac tgtggaaata ggtagaggat cattttttct ttccatatca actaagttgt      60

```

```

atattgtttt ttgacagttt aacacatctt cttctgtcag agattctttc acaatagcac      120
tggtctaatgg aactaccgct tgcattgttaa aaatgggtgg ttgtgaaatg atcataggcc      180
agtaacgggt atgtttttct aactgatctt ttgctcgttc caaagggacc tcaagacttc      240
catcgatttt atatctgggg tctagaaaag gagttaatct gttttccctc ataaattcac      300
c                                                                           301

```

```

<210> 304
<211> 301
<212> DNA
<213> Homo sapien

```

```

<400> 304
acatggatgt tattttgcag actgtcaacc tgaatttgta tttgcttgac attgcctaatt      60
tattagtttc agtttcagct taccactttt ttgtctgcaa catgcaraas agacagtgcc      120
cttttttagtg tatcatatca ggaatcatct cacattgggt tgtgccatta ctgggtgcagt      180
gacttttcagc cacttgggta aggtggagtt ggccatatgt ctccactgca aaattactga      240
ttttcctttt gtaattaata agtgtgtgtg tgaagattct ttgagatgag gtatatatct      300
c                                                                           301

```

```

<210> 305
<211> 301
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(301)
<223> n = A,T,C or G

```

```

<400> 305
gangtacagc gtggtcaagg taacaagaag aaaaaaatgt gagtggcatc ctgggatgag      60
cagggggaca gacctggaca gacacgttgt catttgctgc tgtgggtagg aaaatgggag      120
taaaggagga gaaacagata caaatctccc aactcagtat taaggatttc tcatgcctag      180
aatattggta gaaacaagaa tacattcata tggcaaataa ctaaccatgg tggaacaaaa      240
ttctgggatt taagttggat accaangaaa ttgtattaaa agagctgttc atggaataag      300
a                                                                           301

```

```

<210> 306
<211> 8
<212> PRT
<213> Homo sapien

```

```

<400> 306
Val Leu Gly Trp Val Ala Glu Leu
1                               5

```

```

<210> 307
<211> 637
<212> DNA
<213> Homo sapien

```

```

<400> 307
acagggratg aagggaagg gagaggatga ggaagccccc ctggggattt ggtttgggtcc      60
ttgtgatcag gtggtctatg gggcttatcc ctacaaagaa gaatccagaa ataggggcac      120

```

attgaggaat	gatacttgag	cccaaagagc	attcaatcat	tgttttat	gcottmtttt	180
cacaccattg	gtgagggagg	gattaccacc	ctgggggtat	gaagatgggt	gaacacccca	240
cacatagcac	cggagatatg	agatcaacag	tttcttagcc	atagagattc	acagcccaga	300
gcaggaggac	gcttgcacac	catgcaggat	gacatggggg	atgctgctcg	gattgggtgtg	360
aagaagcaag	gactgttaga	ggcaggcttt	atagtaacaa	gacggtgggg	caaactctga	420
tttccgtggg	ggaatgtcat	ggtcttgctt	tactaagttt	tgagactggc	aggtagtgaa	480
actcattagg	ctgagaacct	tgtggaatgc	acttgaccca	sctgatagag	gaagtagcca	540
ggtgggagcc	tttcccagtg	ggtgtgggac	atatctggca	agattttgtg	gcactcctgg	600
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<210> 308

<211> 647

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(647)

<223> n = A,T,C or G

<400> 308

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ggngcctcac	agtatagatc	tggtagcaaa	gaagaagaaa	caaacactga	tctctttctg	180
ccacccctct	gaccctttgg	aactcctctg	acccttttaga	acaagcctac	ctaatatctg	240
ctagagaaaa	gaccaacaac	ggcctcaaag	gatctcttac	catgaaggtc	tcagctaatt	300
cttggtctaag	atgtgggttc	cacattaggt	tctgaatatg	gggggaaggg	tcaatttgc	360
catttttgtgt	gtggataaaag	tcaggatgcc	caggggccag	agcagggggc	tgcttgcttt	420
gggaacaatg	gctgagcata	taaccatagg	ttatggggaa	caaaacaaca	tcaaagtcac	480
tgtatcaatt	gccatgaaga	cttgaggggac	ctgaatctac	cgattcatct	taaggcagca	540
ggaccagttt	gagtggaac	aatgcagcag	cagaatcaat	ggaaacaaca	gaatgattgc	600
aatgtccttt	tttttctcct	gcttctgact	tgataaaagg	ggaccgt		647

<210> 309

<211> 460

<212> DNA

<213> Homo sapien

<400> 309

actttatagt	ttaggctgga	cattggaaaa	aaaaaaaaagc	cagaacaaca	tgtgatagat	60
aatatgattg	gctgcacact	tccagactga	tgaatgatga	acgtgatgga	ctattgtatg	120
gagcacatct	tcagcaagag	ggggaaatac	tcatcatttt	tggccagcag	ttgtttgatc	180
accaaacaac	atgccagaat	actcagcaaa	ccttcttagc	tcttgagaag	tcaaagtcag	240
ggggaattta	ttcctggcaa	ttttaattgg	actccttatg	tgagagcagc	ggctaccag	300
ctggggtggt	ggagcgaacc	cgctactagt	ggacatgcag	tggcagagct	cctggtaacc	360
acctagagga	atacacaggc	acatgtgtga	tgccaagcgt	gacacctgta	gcactcaaat	420
ttgtcttggt	tttgtctttc	ggtgtgtaag	attcttaagt			460

<210> 310

<211> 539

<212> DNA

<213> Homo sapien

<400> 310

acgggactta	tcaaataaag	ataggaaaag	aagaaaactc	aaatattata	ggcagaaatg	60
ctaaaggttt	taaaatatgt	caggattgga	agaaggcatg	gataaagaac	aaagttcagt	120
taggaaagag	aaacacagaa	ggaagagaca	caataaaagt	cattatgtat	tctgtgagaa	180
gtcagacagt	aagatttgtg	ggaaatgggt	tggtttggtg	tatggtatgt	attttagcaa	240
taatctttat	ggcagagaaa	gctaaaatcc	tttagcttgc	gtgaatgatc	acttgctgaa	300
ttcctcaagg	taggcatgat	gaaggagggt	ttagaggaga	cacagacaca	atgaactgac	360
ctagatagaa	agccttagta	tactcagcta	ggaatagtga	ttctgagggc	acactgtgac	420
atgattatgt	cattacatgt	atggtagtga	tggggatgat	aggaaggaag	aacttatggc	480
atattttcac	ccccacaaaa	gtcagttaaa	tattgggaca	ctaaccatcc	aggtcaaga	539

<210> 311

<211> 526

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(526)

<223> n = A,T,C or G

<400> 311

caaatttgag	ccaatgacat	agaattttac	aatcaagaa	gcttattctg	gggccatttc	60
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catttacagc	atttaaaatg	tggtcagcat	gaaatattag	ctacagggga	agctaaataa	180
attaacatg	gaataaagat	ttgtccttaa	atataatcta	caagaagact	ttgatatttg	240
tttttcacaa	gtgaagcatt	cttataaagt	gtcataacct	ttttggggaa	actatgggaa	300
aaaatgggga	aactctgaag	ggttttaagt	atcttacctg	aagctacaga	ctccataacc	360
tctctttaca	gggagctcct	gcagccccta	cagaaatgag	tggctgagat	tcttgattgc	420
acagcaagag	cttctcatct	aaaccctttc	cctttttagt	atctgtgtat	caagtataaa	480
agttctataa	actgtagtnt	acttatttta	atccccaaag	cacagt		526

<210> 312

<211> 500

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(500)

<223> n = A,T,C or G

<400> 312

cctctctctc	cccaccccct	gactctagag	aactgggttt	tctcccagta	ctccagcaat	60
tcaatttctga	aagcagttga	gccactttat	tccaaagtac	actgcagatg	ttcaaactct	120
ccattttctct	ttcccttcca	cctgccagtt	ttgctgactc	tcaacttgtc	atgagtgtaa	180
gcattaagga	cattatgctt	cttcgattct	gaagacaggc	cctgctcatg	gatgactctg	240
gcttcttagg	aaaatathtt	tcttccaaaa	tcagtaggaa	atctaaactt	atccccctct	300
tgcatatgtc	tagcagcttc	agacatttgg	ttaagaacct	atgggaaaaa	aaaaaatcct	360
tgtaaatgtg	gtttcctttg	taaaccanga	ttcttatttg	nctggtatag	aatatcagct	420
ctgaacgtgt	ggtaaagatt	tttgtgtttg	aatataggag	aatcagttt	gctgaaaagt	480
tagtcttaat	tatctattgg					500

<210> 313

<211> 718

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(718)
<223> n = A,T,C or G

<400> 313
ggagatttgt gtggtttgca gccgagggag accaggaaga tctgcatggt gggaaggacc 60
tgatgataca gaggtgagaa ataagaaagg ctgctgactt taccatctga ggccacacat 120
ctgctgaaat ggagataaatt aacatcacta gaaacagcaa gatgacaata taatgtctaa 180
gtagtgcacat gtttttgcaac atttccagcc ctttttaaata tccacacaca caggaagcac 240
aaaaggaagc acagagatcc ctgggagaaa tgcccggccg ccattcttggg tcatcgatga 300
gcctcgccct gtgcctgntc ccgcttgtga gggaaggaca ttagaaaatg aattgatgtg 360
ttccttaaag gatggcagga aaacagatcc tgttgtggat atttatttga acgggattac 420
agatttgaaa tgaagtcaca aagtgcagat taccaatgag aggaaaacag acgagaaaat 480
cttgatgggt cacaagacat gcaacaaaca aaatggaata ctgtgatgac acgagcagcc 540
aactggggag gagataccac ggggcagagg tcaggattct ggccctgctg cctaactgtg 600
cgttatacca atcatttcta tttctaccct caaacaagct gtngaataac tgacttacgg 660
ttcttntggc ccacattttc atnatccacc ccentntttt aannttantic caaantgt 718

<210> 314
<211> 358
<212> DNA
<213> Homo sapien

<400> 314
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cataatcaaa tatagctgta gtacatgttt tcattgggtg agattaccac aaatgcaagg 120
caacatgtgt agatctcttg tcttattctt ttgtctataa tactgtattg tgtagtccaa 180
gctctcggtg gtccagccac tgtgaaacat gctcccttta gattaacctc gtggacgctc 240
ttgttgtatt gctgaactgt agtgccctgt attttgcttc tgtctgtgaa ttctgttgct 300
tctggggcat ttccttgtga tgcagaggac caccacacag atgacagcaa tctgaatt 358

<210> 315
<211> 341
<212> DNA
<213> Homo sapien

<400> 315
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gacccccatt ctgaagatgt ctggaacctc taccagcagg atgatgatag cccaatgac 180
agtcaccagc tccccgacca gccggatata gtccttaggg gtcattgtag ctctctgaag 240
tagcttctgc tgtaagaggg tgttgtcccg ggggctcgtg cggttattgg tcttgggctt 300
gagggggcgg tagatgcagc acatggtgaa gcagatgatg t 341

<210> 316
<211> 151
<212> DNA
<213> Homo sapien

<400> 316

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 tgtgggcctt tctcgagttt ctgattataa acaccactgg agcgatgtgt tgactggact 120
 cattcaggga gctctgggtg caatattagt t 151

<210> 317
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 317
 agaactagt gacctaataa aaatacctga aacatatatt ggcatttatc aatggctcaa 60
 atcttcattt atctctggcc ttaaccctgg ctcttgaggg tgcggccagc agatcccagg 120
 ccagggtctt gttcttgcca cacctgcttg a 151

<210> 318
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 318
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 gctgcaggct ggagtgtctt tattcctggc gggagaccgc acattccact gctgaggctg 120
 tgggggctgt ttatcaggca gtgataaaca t 151

<210> 319
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 319
 aactagtga tccagagcta taggtacagt gtgatctcag ctttgcaaac acattttcta 60
 catagatagt actaggtatt aatagatatg taaagaaaga aatcacacca ttaataatgg 120
 taagattggg tttatgtgat tttatgggt a 151

<210> 320
 <211> 150
 <212> DNA
 <213> Homo sapien

<400> 320
 aactagtga tccactagtc cagtgtgggt gaattccatt gtgttgggggt tctagatcgc 60
 gagcggtgc cctttttttt tttttttttg ggggggaatt tttttttttt aatagttatt 120
 gactgttcta cagcttacag taaataccat 150

<210> 321
 <211> 151
 <212> DNA
 <213> Homo sapien

<400> 321
 agcaactttg tttttcatcc aggttatttt aggcttagga ttctctctca cactgcagtt 60
 taggttgga ttgtaaccag ctatggcata ggtgttaacc aaaggctgag taaacatggg 120
 tgctctgag aaatcaaagt cttcatacac t 151

<210> 322
 <211> 151
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(151)
 <223> n = A,T,C or G

<400> 322
 atccagcatc ttctcctgtt tottgccttc ctttttcttc ttcttasatt ctgcttgagg 60
 tttgggcttg gtcagtttgc cacagggcctt ggagatgggtg acagtcttct ggcattcggc 120
 attgtgcagg gctcgcttca nacttccagt t 151

<210> 323
 <211> 151
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(151)
 <223> n = A,T,C or G

<400> 323
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 nagactcant tactaccag tttgtggttt twtgggagaa atgtaactgg acagttagct 120
 gttcaatyaa aaagacactt ancccatgtg g 151

<210> 324
 <211> 461
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(461)
 <223> n = A,T,C or G

<400> 324
 acctgtgtgg aatttcagct ttctcatgc aaaaggattt tgtatccccg gctacttga 60
 agaagtgggc agctaaagga atccaggttg ttggttgac tgtaataacc tttgatgaaa 120
 agagttacta ogaatcccat cttgggtcca gctatatcac tgacagcatg gtagaagact 180
 gcgaacctca cttctagact ttcacgggtg gacgaaacgg gttcagaaac tgccaggggc 240
 ctcatacagg gatatacaaaa taccctttgt gctaccagg ccctggggaa tcaggtgact 300
 cacacaaatg caatagttgg tcaactgcatt tttacctgaa ccaaagctaa acccggtgtt 360
 gccaccatgc accatggcat gccagagttc aacactgttg ctcttgaaaa ttgggtctga 420
 aaaaacgcac aagagcccct gccctgccct agctgangca c 461

<210> 325
 <211> 400
 <212> DNA
 <213> Homo sapien

<400> 325

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tttgatgtct	ccaagtagtc	caccttcatt	taactctttg	aaactgtatc	atctttgcca	120
agtaagagtg	gtggcctatt	tcagctgctt	tgacaaaatg	actggctcct	gacttaacgt	180
tctataaatg	aatgtgctga	agcaaagtgc	ccatggtggc	ggcgaagaag	agaaagatgt	240
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gtcccttttg	cattgccaag	tgccataacc	atgagcacta	cgctaccatg	gttctgcctc	360
ctggccaagc	aggtggtttt	gcaagaatga	aatgaatgat			400

<210> 326

<211> 1215

<212> DNA

<213> Homo sapien

<400> 326

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taacgacctc	atgctcatca	agttggacga	atccgtgtcc	gagtctgaca	ccatccggag	300
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tgaggaggtc	tgcaagtaag	tctatgaccc	gctgtaccac	cccagcatgt	tctgcgccgg	480
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aggtgtctac	accaacctct	gcaaattcac	tgagtggata	gagaaaaccg	tccaggccag	660
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<210> 327

<211> 220

<212> PRT

<213> Homo sapien

<400> 327

Glu	Asp	Cys	Ser	Pro	His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu	Val	Met
1				5					10					15	
Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln	Trp	Val
			20					25					30		
Leu	Ser	Ala	Ala	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly	Leu	Gly
			35				40					45			
Leu	His	Ser	Leu	Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met	Val	Glu
			50				55				60				
Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu	Leu	Ala
65					70					75					80

Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp
 85 90 95
 Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn
 100 105 110
 Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro
 115 120 125
 Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu Val Cys
 130 135 140
 Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly
 145 150 155 160
 Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro
 165 170 175
 Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala
 180 185 190
 Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys
 195 200 205
 Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 210 215 220

<210> 328
 <211> 234
 <212> DNA
 <213> Homo sapien

<400> 328
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 atccgcagtg ggtgctgtca gccacacact gtttcagaa ctcctacacc atcgggctgg 180
 gcctgcacag tcttgaggcc gaccaagagc cagggagcca gatggtggag gcca 234

<210> 329
 <211> 77
 <212> PRT
 <213> Homo sapien

<400> 329
 Leu Val Ser Gly Ser Cys Ser Gln Ile Ile Asn Gly Glu Asp Cys Ser
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 Pro His Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu
 20 25 30
 Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Thr
 35 40 45
 His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu
 50 55 60
 Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala
 65 70 75

<210> 330
 <211> 70
 <212> DNA
 <213> Homo sapien

<400> 330
 cccaacacaa tggcccgatc ccatccctga ctccgccctc aggatcgctc gtctctggta 60

gctgcagcca

70

<210> 331
 <211> 22
 <212> PRT
 <213> Homo sapien

<400> 331
 Gln His Asn Gly Pro Ile Pro Ser Leu Thr Pro Pro Ser Gly Ser Leu
 1 5 10 15
 Val Ser Gly Ser Cys Ser
 20

<210> 332
 <211> 2507
 <212> DNA
 <213> Homo sapien

<400> 332
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 tgcccttctt tctgtatatg gctgcgcccc aaatcaggaa aatgctgtcc agtgggggtg 120
 gtacatcaac tgttcagctt cctgggaaag tagttgtggt cacaggagct aatacaggta 180
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 gggatgtgga aaagggggaa ttggtggcca aagagatcca gaccacgaca gggaaccagc 300
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 gcacagtcca atctgaactg gttcggcact catctttcat gagatggatg tgggtggcttt 780
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<211> 3030

<212> DNA

<213> Homo sapien

<400> 333

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<211> 2417

<212> DNA

<213> Homo sapien

<400> 334

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 <211> 2984
 <212> DNA
 <213> Homo sapien

<400> 335

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<211> 147
<212> PRT
<213> Homo sapien

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Pro Lys Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln
35          40          45
Val Ile Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala
50          55          60
Pro Glu Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln
65          70          75          80
Val Lys Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln
85          90          95
Leu Ser Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala
100          105          110
Leu Lys Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn
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Ala Phe Trp
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<210> 337
<211> 9
<212> PRT
<213> Homo sapien

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<210> 338
<211> 9
<212> PRT
<213> Homo sapien

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<400> 338
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<210> 339
 <211> 318
 <212> PRT
 <213> Homo sapien

<400> 339
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 Cys Thr Ser Thr Val Gln Leu Pro Gly Lys Val Val Val Val Thr Gly
 35 40 45
 Ala Asn Thr Gly Ile Gly Lys Glu Thr Ala Lys Glu Leu Ala Gln Arg
 50 55 60
 Gly Ala Arg Val Tyr Leu Ala Cys Arg Asp Val Glu Lys Gly Glu Leu
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 Val Ala Lys Glu Ile Gln Thr Thr Thr Gly Asn Gln Gln Val Leu Val
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 Arg Lys Leu Asp Leu Ser Asp Thr Lys Ser Ile Arg Ala Phe Ala Lys
 100 105 110
 Gly Phe Leu Ala Glu Glu Lys His Leu His Val Leu Ile Asn Asn Ala
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 Gly Val Met Met Cys Pro Tyr Ser Lys Thr Ala Asp Gly Phe Glu Met
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 His Ile Gly Val Asn His Leu Gly His Phe Leu Leu Thr His Leu Leu
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 Leu Glu Lys Leu Lys Glu Ser Ala Pro Ser Arg Ile Val Asn Val Ser
 165 170 175
 Ser Leu Ala His His Leu Gly Arg Ile His Phe His Asn Leu Gln Gly
 180 185 190
 Glu Lys Phe Tyr Asn Ala Gly Leu Ala Tyr Cys His Ser Lys Leu Ala
 195 200 205
 Asn Ile Leu Phe Thr Gln Glu Leu Ala Arg Arg Leu Lys Gly Ser Gly
 210 215 220
 Val Thr Thr Tyr Ser Val His Pro Gly Thr Val Gln Ser Glu Leu Val
 225 230 235 240
 Arg His Ser Ser Phe Met Arg Trp Met Trp Trp Leu Phe Ser Phe Phe
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 Ile Lys Thr Pro Gln Gln Gly Ala Gln Thr Ser Leu His Cys Ala Leu
 260 265 270
 Thr Glu Gly Leu Glu Ile Leu Ser Gly Asn His Phe Ser Asp Cys His
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<210> 340
 <211> 483
 <212> DNA
 <213> Homo sapien

<400> 340

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<211> 344

<212> DNA

<213> Homo sapien

<400> 341

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<211> 592

<212> DNA

<213> Homo sapien

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<211> 382

<212> DNA

<213> Homo sapien

<400> 343

ttcttgacct	cctcctcctt	caagctcaaa	caccacctcc	cttattcagg	accggcactt	60
cttaagtgtt	gtggctttct	ctccagcctc	tcttaggagg	ggtaatgggtg	gagttggcat	120
cttgtaactc	tcctttctcc	tttcttcccc	tttctctgcc	cgcttttccc	atcctgctgt	180
agacttcttg	attgtcagtc	tgtgtcacat	ccagtgattg	ttttggtttc	tgttcccttt	240
ctgactgcc	aaggggctca	gaaccccagc	aatcccttcc	tttactacc	ttcttttttg	300
ggggtagttg	gaagggactg	aaattgtggg	gggaaggtag	gaggcacatc	aataaagagg	360
aaaccaccaa	gctgaaaaaa	aa				382

<210> 344
 <211> 536
 <212> DNA
 <213> Homo sapien

<400> 344
 ctgggcctga agctgtaggg taaatcagag gcaggcttct gagtgatgag agtcctgaga 60
 caataggcca cataaacttg gctggatgga acctcacaat aaggtggtca cctcttgttt 120
 gtttaggggg atgccaagga taaggccagc tcagttatat gaagagaagc agaacaaaca 180
 agtctttcag agaaatggat gcaatcagag tgggatcccg gtcacatcaa ggtcacactc 240
 caccttcattg tgccctgaatg gttgccaggt cagaaaaatc cacccttac gagtgcggt 300
 tcgaccctat atcccccgcc cgcgtccctt tctccataaa attcttctta gtagctatta 360
 ccttcttatt atttgatcta gaaattgcc tctttttacc cctaccatga gccctacaaa 420
 caactaacct gccactaata gttatgtcat cctctttatt aatcatcatc ctagccctaa 480
 gtctggccta tgagtgacta caaaaaggat tagactgagc cgaataacaa aaaaaa 536

<210> 345
 <211> 251
 <212> DNA
 <213> Homo sapien

<400> 345
 acctttttgag gtctctctca ccacctccac agccaccgtc accgtgggat gtgctggatg 60
 tgaatgaagc ccccatcttt gtgcctcctg aaaagagagt ggaagtgtcc gaggactttg 120
 gcgtgggcca ggaaatcaca tcctacactg cccaggagcc agacacattt atggaacaga 180
 aaataacata tcggatttgg agagacactg ccaactggct ggagattaat ccggacactg 240
 gtgccatttc c 251

<210> 346
 <211> 282
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(282)
 <223> n = A,T,C or G

<400> 346
 cgcgtctctg acactgtgat catgacaggg gttcaaacag aaagtgcctg ggccctcctt 60
 ctaagtcttg ttacaaaaaa aaggaaaaag aaaagatctt ctcagttaca aattctggga 120
 aggagacta tacctggctc ttgccctaag tgagaggtct tccctcccgc accaaaaaat 180
 agaaaggctt tctatttcac tggcccaggt agggggaagg agagtaactt tgagtctgtg 240
 ggtctcattt cccaaggtgc cttcaatgct catnaaaacc aa 282

<210> 347
 <211> 201
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(201)
 <223> n = A,T,C or G

<400> 347

acacacataa	tattataaaa	tgccatctaa	ttggaaggag	ctttctatca	ttgcaagtca	60
taaatataac	ttttaaaana	ntactancag	cttttaccta	ngctcctaaa	tgcttgtaaa	120
tctgagactg	actggaccca	cccagaccca	gggcaaagat	acatgttacc	atatcatctt	180
tataaagaat	ttttttttgt	c				201

<210> 348

<211> 251

<212> DNA

<213> Homo sapien

<400> 348

ctgttaatca	caacatttgt	gcataccttg	tgccaagtga	gaaaatgttc	taaaatcaca	60
agagagaaca	gtgccagaat	gaaactgacc	ctaagtccca	ggtgcccctg	ggcaggcaga	120
aggagacact	cccagcatgg	aggagggttt	atcttttcat	cctaggtcag	gtctacaatg	180
ggggaagggt	ttattataga	actcccaaca	gccacactca	ctcctgccac	ccacccgatg	240
gccctgcctc	c					251

<210> 349

<211> 251

<212> DNA

<213> Homo sapien

<400> 349

taaaaatcaa	gccattttaat	tgtatctttg	aaggtaaaca	atatatggga	gctggatcac	60
aacccctgag	gatgccagag	ctatgggtcc	agaacatggg	gtggtattat	caacagagtt	120
cagaagggtc	tgaactctac	gtgttaccag	agaacataat	gcaattcatg	cattccactt	180
agcaattttg	taaaatacca	gaaacagacc	ccaagagtct	ttcaagatga	ggaaaattca	240
actcctggtt	t					251

<210> 350

<211> 908

<212> DNA

<213> Homo sapien

<400> 350

ctggacactt	tgcgagggct	tttgctggct	gctgctgctg	cccgatcatgc	tactcatcgt	60
agcccgcccg	gtgaagctcg	ctgctttccc	tacctcctta	agtgactgcc	aaacgcccac	120
cggctggaat	tgctctggtt	atgatgacag	agaaaatgat	ctcttcctct	gtgacaccaa	180
cacctgtaaa	tttgatgggg	aatgtttaag	aattggagac	actgtgactt	gcgtctgtca	240
gttcaagtgc	aacaatgact	atgtgcctgt	gtgtgggtcc	aatggggaga	gctaccagaa	300
tgagtgttac	ctgcgacagg	ctgcatgcaa	acagcagagt	gagatacttg	tggtgtcaga	360
aggatcatgt	gccacagtcc	atgaaggctc	tgagaaaact	agtcaaaagg	agacatccac	420
ctgtgatatt	tgccagtttg	gtgcagaatg	tgacgaagat	gccgaggatg	tctggtgtgt	480
gtgtaataat	gactgttctc	aaaccaactt	caatcccctc	tgcgcttctg	atgggaaatc	540
ttatgataat	gcatgccaaa	tcaaagaagc	atcgtgtcag	aaacaggaga	aaattgaagt	600
catgtctttg	ggtcgatgtc	aagataacac	aactacaact	actaagtctg	aagatgggca	660
ttatgcaaga	acagattatg	cagagaatgc	taacaaatta	gaagaaagtg	ccagagaaca	720
ccacatacct	tgtccggaac	attacaatgg	cttctgcatg	catgggaagt	gtgagcattc	780
tatcaatatg	caggagccat	cttgacaggtg	tgatgctggg	tatactggac	aacactgtga	840
aaaaaaggac	tacagtgttc	tatacgttgt	tcccggtcct	gtacgatttc	agtatgtctt	900
aatcgcac						908

<210> 351
 <211> 472
 <212> DNA
 <213> Homo sapien

<400> 351
 ccagttat ttt gcaagtggta agagcctatt taccataaat aataactaaga accaactcaa 60
 gtcaaacctt aatgccattg ttattgtgaa ttaggattaa gtagtaattt tcaaaattca 120
 cattaacttg attttaaaat cagwtttgyg agtcatttac cacaagctaa atgtgtacac 180
 tatgataaaa acaaccattg tattcctgtt tttctaaca gtcctaattt ctaacactgt 240
 atatatcctt cgacatcaat gaactttgtt ttcttttact ccagtaataa agtaggcaca 300
 gatctgtcca caacaaactt gccctctcat gccttgccctc tcaccatgct ctgctccagg 360
 tcagccccct tttggcctgt ttgttttgtc aaaaacctaa tctgcttctt gcttttcttg 420
 gtaatatata tttaggggaag atgttgcttt gccacacac gaagcaaagt aa 472

<210> 352
 <211> 251
 <212> DNA
 <213> Homo sapien

<400> 352
 ctcaaagcta atctctcggg aatcaaacca gaaaaggga aggatcttag gcatgggtgga 60
 tgtggataag gccaggtcaa tggctgcaag catgcagaga aagaggtaca tcggagcgtg 120
 caggctgcgt tccgtcctta cgatgaagac cacgatgcag tttccaaaca ttgccactac 180
 atacatggaa aggaggggga agccaacca gaaatgggct ttctctaata ctgggatacc 240
 aataagcaca a 251

<210> 353
 <211> 436
 <212> DNA
 <213> Homo sapien

<400> 353
 tttttttttt tttttttttt ttttttacia caatgcagtc atttatttat tgagtatgtg 60
 cacattatgg tattattact atactgatta tatttatcat gtgacttcta attaraaaat 120
 gtatccaaaa gcaaaacagc agatatacaa aattaaagag acagaagata gacattaaca 180
 gataaggcaa cttatacatt gacaatccaa atccaatata tttaaacatt tgggaaatga 240
 gggggacaaa tggaagccar atcaaatttg tgtaaaacta ttcagtatgt ttcccttgct 300
 tcatgtctga raaggctctc ccttcaatgg ggatgacaaa ctccaaatgc cacacaaatg 360
 ttaacagaat actagattca cactggaacg ggggtaaaga agaaattatt ttctataaaa 420
 gggctcctaa tgtagt 436

<210> 354
 <211> 854
 <212> DNA
 <213> Homo sapien

<400> 354
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 caagtctgaa accaaaatcta ggaaacatag gaaacgagcc aggcacaggg ctgggtgggcc 120
 atcagggacc accctttggg ttgatatttt gcttaatctg catcttttga gtaagatcat 180
 ctggcagtag aagctgttct ccaggtagat ttctctagct catgtacaaa aacatcctga 240
 aggactttgt caggtgcctt gctaaaagcc agatgcgttc ggcacttcct tggctctgagg 300
 ttaattgcac acctacaggc actgggctca tgctttcaag tattttgtcc tcacttttagg 360

gtgagtga	gatccccatt	ataggagcac	ttgggagaga	tcatataaaa	gctgactctt	420
gagtacatgc	agtaatgggg	tagatgtgtg	tgggtgtgtct	tcaattcctgc	aaggggtgctt	480
gttagggagt	gtttccagga	ggaacaagtc	tgaaccaat	catgaaataa	atggtaggtg	540
tgaactggaa	aactaattca	aaagagagat	cgtgatatca	gtgtggttga	tacaccttgg	600
caatatggaa	ggctctaatt	tgcccatatt	tgaataata	attcagcttt	ttgtaataca	660
aaataacaaa	ggattgagaa	tcatggtgtc	taatgtataa	aagaccag	aaacataaat	720
atatcaactg	cataaatgta	aaatgcatgt	gacccaagaa	ggcccaaag	tggcagacaa	780
cattgtaccc	attttccctt	ccaaaatgtg	agcggcgggc	ctgctgcttt	caaggctgtc	840
acacgggatg	tcag					854

<210> 355

<211> 676

<212> DNA

<213> Homo sapien

<400> 355

gaaattaagt	atgagctaaa	ttccctgtta	aaacctctag	gggtgacaga	tctcttcaac	60
caggtcaaa	ctgatctttc	tggaaatgtc	ccaaccaagg	gcctatat	atcaaaagcc	120
atccacaagt	catacctgga	tgtcagcgaa	gagggcacgg	aggcagcagc	agccactggg	180
gacagcatcg	ctgtaaaaag	cctaccaatg	agagctcagt	tcaaggcgaa	ccacccttc	240
ctgttcttta	taaggcacac	tcataccaac	acgatcctat	tctgtggcaa	gcttgccctc	300
ccctaatacag	atgggggttga	gtaaggctca	gagttgcaga	tgaggtgcag	agacaatcct	360
gtgactttcc	cacggccaaa	aagctgttca	caacctcagc	acctctgtgc	ctcagtttgc	420
tcatctgcaa	aataggtcta	ggattttctc	caaccatttc	atgagttgtg	aagctaaggc	480
tttgtttaatc	atggaaaaag	gtagacttat	gcagaaagcc	tttctggctt	tcttatctgt	540
ggtgtctcat	ttgagtgtcg	tccagtgaca	tgatcaagtc	aatgagtaaa	attttaaggg	600
attagatttt	cttgacttgt	atgtatctgt	gagatcttga	ataagtgacc	tgacatctct	660
gcttaaagaa	aaccag					676

<210> 356

<211> 574

<212> DNA

<213> Homo sapien

<400> 356

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catgtggcac	ctgactggca	tcaaaccaaa	gttcgtaggc	caacaaagat	gggccactca	120
caagcttccc	atgtgtagat	ctcagtgcct	atgagtatct	gacacctgtt	cctctcttca	180
gtctcttagg	gaggcttaaa	tctgtctcag	gtgtgctaag	agtgccagcc	caaggkgtc	240
aaaagtccac	aaaactgcag	tctttgctgg	gatagtaagc	caagcagtgc	ctggacagca	300
gagttctttt	cttgggcaac	agataaccag	acaggactct	aatcgtgctc	ttattcaaca	360
ttcttctgtc	tctgcctaga	ctggaataaa	aagccaatct	ctctcgtggc	acagggaagg	420
agatacaagc	togttttacat	gtgatagatc	taacaaaggc	atctaccgaa	gtctggctcg	480
gatagacggc	acagggagct	cttaggtcag	cgctgctggt	tggaggacat	tcctgagtcc	540
agctttgcag	cctttgtgca	acagtacttt	ccca			574

<210> 357

<211> 393

<212> DNA

<213> Homo sapien

<400> 357

tttttttttt	tttttttttt	tttttttttt	tacagaatat	aratgcttta	tcaactgkact	60
taatatgkkg	kottgtttcac	tatacttaaa	aatgcaccac	tcataaatat	ttaattcagc	120

aagccacaac	caaracttga	ttttatcaac	aaaaaccct	aatataaac	ggsaaaaaag	180
atagatataa	ttattccagt	ttttttaaaa	cttaaaarat	attccattgc	cgaattaara	240
araarataag	tggttatatg	aaagaagggc	attcaagcac	actaaaraaa	cctgaggkaa	300
gcataatctg	tacaaaatta	aactgtcctt	tttggcattt	taacaaattt	gcaacgktct	360
tttttttctt	tttctgtttt	tttttttttt	tac			393

<210> 358
 <211> 630
 <212> DNA
 <213> Homo sapien

<400> 358						
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ttaatgttta	taggaaaatg	atgagtttat	gacaaaggaa	gtagatagtg	ttttacaaga	120
gcatagagta	gggaagctaa	tccagcacag	ggaggtcaca	gagacatccc	taaggaagtg	180
gagtttaaac	tgagagaagc	aagtgcctaa	actgaaggat	gtgttgaaga	agaagggaga	240
gtagaacaat	ttgggcagag	ggaaccttat	agaccctaag	gtgggaaggt	tcaaagaact	300
gaaagagagc	tagaacagct	ggagccgttc	tccggtgtaa	agaggagtca	aagagataag	360
attaaagatg	tgaagattaa	gatcttggtg	gcattcaggg	attggcactt	ctacaagaaa	420
tcactgaagg	gagtaatgtg	acattacttt	tcacttcagg	atggccattc	taactccagg	480
gggtagactg	gactaggtaa	gactggaggc	aggtagacct	cttctaaggc	ctgcgatagt	540
gaaagacaaa	aataagtggg	gaaattcagg	ggatagttaa	aatcagtagg	acttaatgag	600
caagccagag	gttctctccac	aacaaccagt				630

<210> 359
 <211> 620
 <212> DNA
 <213> Homo sapien

<400> 359						
acagcatttc	aaaatataca	tctagagact	aarrgtaaat	gctctatagt	gaagaagtaa	60
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ctcaccagaa	gaataaagtg	ctctgccagt	tattaaagga	ttactgctgg	tgaattaaat	180
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aggattaact	gttttaggaa	cagatataaa	gcttcgccac	ggaagagatg	gacaaagcac	300
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tgcaacatta	tgcttcatga	ataatatgta	gaaagaaggt	ctgatgaaaa	tgacatcctt	420
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aatgtcattg	acttatcaaa	tactatcttg	gcatataacc	tatgaaggca	aaactaaaca	540
aacaaaaagc	tcacaccaa	caaaaccatc	aacttatttt	gtattctata	acatacgaga	600
ctgtaaagat	gtgacagtgt					620

<210> 360
 <211> 431
 <212> DNA
 <213> Homo sapien

<400> 360						
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tactcatcat	ttttggccag	cagttgtttg	atcaccaaac	atcatgccag	aatactcagc	180
aaaccttctt	agctcttgag	aagtcaaagt	ccgggggaat	ttattcctgg	caattttaat	240
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<400> 363						
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tgggaggcac	taogcaagat	gggactgcgt	cctgggggtga	gacatcctct	ccttgagagat	180
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tagcaagatg	naagtgttga	gantcattgc	agaggttcag	aaaagagacc	cntcgtgact	360
ggtctgcaca	gttcatggag	gctgcagatg	aggccttggga	tgcctctggt	gctgtgcag	420
ctgaggccga	agcccgggct	gaagcaagaa	cccgcattggg	aatttgagat	gaggctgtgt	480
ntgggccctg	gagctgggat	gacattgagt	ttgagctgct	gacctgggat	gaggaaggag	540
attttgagaga	tcctntggctc	agaattccat	ttaccttctg	ggccagatac	caccagaatg	600
cccgctccag	attccctcag	acctttgccg	gtcccattat	tggtcstggt	ggt	653

<210> 364
 <211> 401
 <212> DNA
 <213> Homo sapien

<400> 364
 actagaggaa agacgttaaa ccactctact accacttgtg gaactctcaa agggtaaagt 60
 acaaagccaa tgaatgactc taaaaacaat atttacattt aatggtttgt agacaataaa 120
 aaaacaaggt ggatagatct agaattgtaa cattttaaga aaaccatagc atttgacaga 180
 tgagaaagct caattataga tgcaaagtta taactaaact actatagtag taaagaaata 240
 catttcacac cttcatata aattcactat cttggcttga ggcaactccat aaaatgtatc 300
 acgtgcatag taaatcttta tttttgctat ggcggttgac tagaggactt ggactgcaac 360
 aagtggatgc gcggaaaatg aaatcttctt caatagccca g 401

<210> 365
 <211> 356
 <212> DNA
 <213> Homo sapien

<400> 365
 ccagtgtcat atttgggctt aaaatttcaa gaagggcact tcaaattggct ttgcatttgc 60
 atgtttcagt gctagagcgt aggaatagac cctggcgctc actgtgagat gttcttcagc 120
 taccagagca tcaagtctct gcagcaggtc attcttgggt aaagaaatga cttccacaaa 180
 ctctccatcc cctggctttg gcttcggcct tgcgttttgc gcatcatctc cgttaatggc 240
 gactgtcacg atgtgtatag tacagtttga caagcctggg tccatacaga ccgctggaga 300
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<210> 366
 <211> 1851
 <212> DNA
 <213> Homo sapien

<400> 366
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 aagatacatc aacattttgc tcaagtagag ggctgactat acttgcctgat ccacaacata 360
 cagcaagtat gagagcagtt cttccatata tatccagcgc atttaaattc gcttttttct 420
 tgattaaaaa tttcaccact tgctgttttt gctcatgtat accaagtagc agtgggtgtga 480
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 cttttgtcag actgtctctc tttttgttgt caaggacatt aagttgacat cgtctgtcca 720
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aagagatgaa	gacactgcag	tatatctgca	caacgtaata	ctcttcatcc	ataacaaaat	1380
aatataat	tcctctggag	ccatatggat	gaactatgaa	ggaagaactc	cccgaagaag	1440
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gctcctgaga	aacaccccag	ctcttccggg	ctaacacagg	caagtcaata	aatgtgataa	1620
tcacataaac	agaattaaaa	gcaaagtcac	ataagcatct	caacagacac	agaaaaggca	1680
tttgacaaaa	tccagcatcc	ttgtatttat	tggtgcagtt	ctcagaggaa	atgcttctaa	1740
cttttcccca	tttagtatta	tggtggctgt	gggcttgcca	taggtgggtt	ttattacttt	1800
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<210> 367

<211> 668

<212> DNA

<213> Homo sapien

<400> 367

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<210> 368

<211> 1512

<212> DNA

<213> Homo sapien

<400> 368

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<210> 369

<211> 1853

<212> DNA

<213> Homo sapien

<400> 369

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<210> 370

<211> 2184

<212> DNA

<213> Homo sapien

<400> 370

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<210> 371

<211> 1855

<212> DNA

<213> Homo sapien

<220>

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<400> 371

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<210> 372

<211> 1059

<212> DNA

<213> Homo sapien

<400> 372

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<210> 373

<211> 1155

<212> DNA

<213> Homo sapien

<400> 373

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<210> 374

<211> 2000

<212> DNA

<213> Homo sapien

<400> 374

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caaaatgata	ctcagaagca	atthttgtgaa	gaacagaaca	ctggaatatt	acacgatgag	1800
attctgattc	atgaagaaaa	gcagatagaa	gtgggttgaaa	aatgaattc	tgagctttct	1860
cttagttgta	agaaagaaaa	agacatcttg	catgaaaata	gtacgttgcg	ggaagaaatt	1920
gccatgctaa	gactggagct	agacacaatg	aaacatcaga	gccagctaaa	aaaaaaaaaa	1980
aaaaaaaaaa	aaaaaaaaaa					2000

<210> 375

<211> 2040

<212> DNA

<213> Homo sapien

<400> 375

atgggtggttg	agggttgattc	catgccggct	gcctcttctg	tgaagaagcc	atttgggtctc	60
aggagcaaga	tgggcaagtg	gtgtgcccgt	tgtctccct	gctgcaggga	gagcggcaag	120
agcaacgtgg	gcacttctgg	agaccacgac	gactctgcta	tgaagacact	caggagcaag	180
atgggcaagt	ggtgcccgca	ctgcttcccc	tgtctcagg	ggagtggcaa	gagcaacgtg	240
ggcgcttctg	gagaccacga	cgactctgct	atgaagacac	tcaggaacaa	gatgggcaag	300
tgggtgctgcc	actgcttccc	ctgctgcagg	gggagcggca	agagcaaggt	ggcgcttgg	360
ggagactacg	atgacagtgc	cttcatggag	cccagggtacc	acgtccgtgg	agaagatctg	420
gacaagctcc	acagagctgc	ctgggtgggt	aaagtcccca	gaaaggatct	catcgctcatg	480
ctcagggaca	ctgacgtgaa	caagaaggac	aagcaaaaaga	ggactgctct	acatctggcc	540
tctgccaatg	ggaattcaga	agtagtaaaa	ctcctgctgg	acagacgatg	tcaacttaat	600
gtccttgaca	acaaaaagag	gacagctctg	ataaaggccg	tacaatgcca	ggaagatgaa	660
tgtgcggttaa	tgttgctgga	acatggcact	gatccaaata	ttccagatga	gtatggaaat	720
accactctgc	actacgctat	ctataatgaa	gataaattaa	tggccaaagc	actgctctta	780
tatgggtgctg	atatacgaatc	aaaaaacaag	catggcctca	caccactgtt	acttgggtgta	840
catgagcaaa	aacagcaagt	cgtgaaatth	ttaatcaaga	aaaaagcgaa	tttaaatgca	900
ctggatagat	atggaaggac	tgtctcata	cttgcgtgat	gttgtggatc	agcaagtata	960
gtcagccttc	tacttgagca	aaatattgat	gtatcttctc	aagatctatc	tggacagacg	1020
gccagagagt	atgctgtttc	tagtcatcat	catgtaatth	gccagttact	ttctgactac	1080
aaagaaaaac	agatgctaaa	aatctcttct	gaaaacagca	atccagaaca	agacttaaa	1140
ctgacatcag	aggaagagtc	acaaagggtc	aaaggcagtg	aaaatagcca	gccagagaaa	1200
atgtctcaag	aaccagaaat	aaataaggat	ggtgatagag	aggttgaaga	agaaatgaag	1260
aagcatgaaa	gtaataatgt	gggattacta	gaaaacctga	ctaattggtgt	cactgctggc	1320
aatggtgata	atggattaat	tcctcaaagg	aagagcagaa	cacctgaaaa	tcagcaatth	1380
cctgacaacg	aaagtgaaga	gtatcacaga	atthtgcgaat	tagthttctga	ctacaaagaa	1440
aaacagatgc	caaaataactc	ttctgaaaac	agcaaccag	aacaagactt	aaagctgaca	1500
tcagaggaag	agtcacaaag	gcttgagggc	agtgaataatg	gccagccaga	gaaaagatct	1560
caagaaccag	aaataaataa	ggatggtgat	agagagctag	aaaatthttat	ggctatcgaa	1620
gaaatgaaga	agcacggaag	tactcatgtc	ggttcccag	aaaacctgac	taatggtgac	1680
actgctggca	atggtgatga	tggattaatt	cctccaagga	agagcagaac	acctgaaagc	1740
cagcaattht	ctgacactga	gaatgaagag	tatcacagt	acgaacaaaa	tgatactcag	1800
aagcaattht	gtgaagaaca	gaacactgga	atattacacg	atgagattct	gattcatgaa	1860
gaaaagcaga	tagaagtggg	tgaaaaaatg	aattctgagc	thttctcttag	ttgtaagaaa	1920
gaaaaagaca	tcttgcatga	aaatagtacg	ttgcgggaag	aaattgccat	gctaagactg	1980
gagctagaca	caatgaaaca	tcagagccag	ctaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2040

<210> 376

<211> 329

<212> PRT

<213> Homo sapien

<400> 376

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Met Asp Ile Val Val Ser Gly Ser His Pro Leu Trp Val Asp Ser Phe
 1      5      10      15
Leu His Leu Ala Gly Ser Asp Leu Leu Ser Arg Ser Leu Met Ala Glu
 20      25      30
Glu Tyr Thr Ile Val His Ala Ser Phe Ile Ser Cys Ile Ser Ser Ser
 35      40      45
Leu Asp Gly Gln Gly Glu Arg Gln Glu Gln Arg Gly His Phe Trp Arg
 50      55      60
Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val
 65      70      75      80
Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val
 85      90      95
Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr
 100     105     110
His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp
 115     120     125
Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp
 130     135     140
Val Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser
 145     150     155     160
Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys
 165     170     175
Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala
 180     185     190
Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly
 195     200     205
Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr
 210     215     220
Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr
 225     230     235     240
Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu
 245     250     255
Leu Gly Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys
 260     265     270
Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu
 275     280     285
Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu
 290     295     300
Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu
 305     310     315     320
Ser Met Leu Phe Leu Val Ile Ile Met
 325

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<210> 377

<211> 148

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(148)

<223> Xaa = Any Amino Acid

<400> 377

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Met Thr Xaa Pro Ser Trp Ser Pro Gly Thr Thr Ser Val Glu Lys Ile
 1          5          10          15
Trp Thr Ser Ser Thr Glu Leu Pro Trp Trp Gly Lys Val Pro Arg Lys
      20          25          30
Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Xaa Asp Lys
      35          40          45
Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu
      50          55          60
Val Val Lys Leu Xaa Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp
      65          70          75          80
Asn Lys Lys Arg Thr Ala Leu Xaa Lys Ala Val Gln Cys Gln Glu Asp
      85          90          95
Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro
      100          105          110
Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Xaa Tyr Asn Glu Asp
      115          120          125
Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser
      130          135          140
Lys Asn Lys Val
145

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<210> 378

<211> 1719

<212> PRT

<213> Homo sapien

<400> 378

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Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
 1          5          10          15
Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
      20          25          30
Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
      35          40          45
His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
      50          55          60
Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
      65          70          75          80
Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
      85          90          95
Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
      100          105          110
Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
      115          120          125
Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
      130          135          140
Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
      145          150          155          160
Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
      165          170          175
Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu

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610	615	620
Glu Tyr Gly Asn Thr Thr	Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys	
625	630	635
Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys		640
	645	650
Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys		655
	660	665
Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala		670
	675	680
Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly		685
	690	700
Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser		705
	710	715
Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser		720
	725	730
His His His Val Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln		735
	740	745
Met Leu Lys Ile Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys		750
	755	760
Leu Thr Ser Glu Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser		765
	770	775
Gln Pro Glu Lys Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp		780
	785	790
Arg Glu Val Glu Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly		795
	805	810
Leu Leu Glu Asn Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn		815
	820	825
Gly Leu Ile Pro Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe		830
	835	840
Pro Asp Asn Glu Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser		845
	850	855
Asp Tyr Lys Glu Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn		860
	865	870
Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu		875
	885	890
Glu Gly Ser Glu Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile		895
	900	905
Glu Glu Met Lys Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn		910
	915	920
Leu Thr Asn Gly Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro		925
	930	935
Pro Arg Lys Ser Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu		940
	945	950
Asn Glu Glu Tyr His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe		955
	965	970
Cys Glu Glu Gln Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His		975
	980	985
Glu Glu Lys Gln Ile Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser		990
	995	1000
Leu Ser Cys Lys Lys Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu		1005
	1010	1015
Arg Glu Glu Ile Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His		1020
	1025	1030
Gln Ser Gln Leu Pro Arg Thr His Met Val Val Glu Val Asp Ser Met		1035
		1040

1045 1050 1055
 Pro Ala Ala Ser Ser Val Lys Lys Pro Phe Gly Leu Arg Ser Lys Met
 1060 1065 1070
 Gly Lys Trp Cys Cys Arg Cys Phe Pro Cys Cys Arg Glu Ser Gly Lys
 1075 1080 1085
 Ser Asn Val Gly Thr Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr
 1090 1095 1100
 Leu Arg Ser Lys Met Gly Lys Trp Cys Arg His Cys Phe Pro Cys Cys
 1105 1110 1115 1120
 Arg Gly Ser Gly Lys Ser Asn Val Gly Ala Ser Gly Asp His Asp Asp
 1125 1130 1135
 Ser Ala Met Lys Thr Leu Arg Asn Lys Met Gly Lys Trp Cys Cys His
 1140 1145 1150
 Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Lys Val Gly Ala Trp
 1155 1160 1165
 Gly Asp Tyr Asp Asp Ser Ala Phe Met Glu Pro Arg Tyr His Val Arg
 1170 1175 1180
 Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val
 1185 1190 1195 1200
 Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys
 1205 1210 1215
 Lys Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly
 1220 1225 1230
 Asn Ser Glu Val Val Lys Leu Leu Asp Arg Arg Cys Gln Leu Asn
 1235 1240 1245
 Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Ile Lys Ala Val Gln Cys
 1250 1255 1260
 Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro
 1265 1270 1275 1280
 Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Ile Tyr
 1285 1290 1295
 Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp
 1300 1305 1310
 Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Val
 1315 1320 1325
 His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala
 1330 1335 1340
 Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala
 1345 1350 1355 1360
 Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln Asn
 1365 1370 1375
 Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu Tyr
 1380 1385 1390
 Ala Val Ser Ser His His His Val Ile Cys Gln Leu Leu Ser Asp Tyr
 1395 1400 1405
 Lys Glu Lys Lys Gln Met Leu Lys Ile Ser Ser Glu Asn Ser Asn Pro Glu
 1410 1415 1420
 Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Phe Lys Gly
 1425 1430 1435 1440
 Ser Glu Asn Ser Gln Pro Glu Lys Met Ser Gln Glu Pro Glu Ile Asn
 1445 1450 1455
 Lys Asp Gly Asp Arg Glu Val Glu Glu Glu Met Lys Lys His Glu Ser
 1460 1465 1470
 Asn Asn Val Gly Leu Leu Glu Asn Leu Thr Asn Gly Val Thr Ala Gly

1475 1480 1485
 Asn Gly Asp Asn Gly Leu Ile Pro Gln Arg Lys Ser Arg Thr Pro Glu
 1490 1495 1500
 Asn Gln Gln Phe Pro Asp Asn Glu Ser Glu Glu Tyr His Arg Ile Cys
 1505 1510 1515 1520
 Glu Leu Val Ser Asp Tyr Lys Glu Lys Gln Met Pro Lys Tyr Ser Ser
 1525 1530 1535
 Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu
 1540 1545 1550
 Ser Gln Arg Leu Glu Gly Ser Glu Asn Gly Gln Pro Glu Lys Arg Ser
 1555 1560 1565
 Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Leu Glu Asn Phe
 1570 1575 1580
 Met Ala Ile Glu Glu Met Lys Lys His Gly Ser Thr His Val Gly Phe
 1585 1590 1595 1600
 Pro Glu Asn Leu Thr Asn Gly Ala Thr Ala Gly Asn Gly Asp Asp Gly
 1605 1610 1615
 Leu Ile Pro Pro Arg Lys Ser Arg Thr Pro Glu Ser Gln Gln Phe Pro
 1620 1625 1630
 Asp Thr Glu Asn Glu Glu Tyr His Ser Asp Glu Gln Asn Asp Thr Gln
 1635 1640 1645
 Lys Gln Phe Cys Glu Glu Gln Asn Thr Gly Ile Leu His Asp Glu Ile
 1650 1655 1660
 Leu Ile His Glu Glu Lys Gln Ile Glu Val Val Glu Lys Met Asn Ser
 1665 1670 1675 1680
 Glu Leu Ser Leu Ser Cys Lys Lys Glu Lys Asp Ile Leu His Glu Asn
 1685 1690 1695
 Ser Thr Leu Arg Glu Glu Ile Ala Met Leu Arg Leu Glu Leu Asp Thr
 1700 1705 1710
 Met Lys His Gln Ser Gln Leu
 1715

<210> 379
 <211> 656
 <212> PRT
 <213> Homo sapien

<400> 379
 Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
 1 5 10 15
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
 20 25 30
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
 35 40 45
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125

Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
 130 135 140
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
 165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
 210 215 220
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu
 370 375 380
 Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys
 385 390 395 400
 Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu
 405 410 415
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn
 420 425 430
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro
 435 440 445
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu
 450 455 460
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu
 465 470 475 480
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp
 485 490 495
 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu
 500 505 510
 Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys
 515 520 525
 Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly
 530 535 540
 Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser
 545 550 555 560

Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr
 565 570 575
 His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln
 580 585 590
 Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln
 595 600 605
 Ile Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys
 610 615 620
 Lys Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile
 625 630 635 640
 Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu
 645 650 655

<210> 380

<211> 671

<212> PRT

<213> Homo sapien

<400> 380

Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
 1 5 10 15
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
 20 25 30
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
 35 40 45
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
 130 135 140
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
 165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
 210 215 220
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val

275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu
 370 375 380
 Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys
 385 390 395 400
 Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu
 405 410 415
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn
 420 425 430
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro
 435 440 445
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu
 450 455 460
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu
 465 470 475 480
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp
 485 490 495
 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu
 500 505 510
 Asn Gly Gln Pro Glu Lys Arg Ser Gln Glu Pro Glu Ile Asn Lys Asp
 515 520 525
 Gly Asp Arg Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys Lys
 530 535 540
 His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly Ala
 545 550 555 560
 Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser Arg
 565 570 575
 Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr His
 580 585 590
 Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln Asn
 595 600 605
 Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln Ile
 610 615 620
 Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys Lys
 625 630 635 640
 Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile Ala
 645 650 655
 Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu
 660 665 670

<210> 381

<211> 251

<212> DNA

<213> Homo sapien

<400> 381
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 ggtaacatgc ttccctaag ggtatcccaa cccaggggcc tcaccatgac ctctgagggg 120
 ccaatatccc aggagaagca ttggggaggt gggggcaggt gaaggacca ggactcacac 180
 atcctgggcc tccaaggcag aggagaggggt cctcaagaag gtcaggagga aaatccgtaa 240
 caagcagtca g 251

<210> 382
 <211> 3279
 <212> DNA
 <213> Homo sapiens

<400> 382
 ctctctgcag ccccatgct ggtgaggggc acgggcagga acagtggacc caacatggaa 60
 atgctggagg gtgtcaggaa gtgatcgggc tctggggcag ggaggagggg tggggagtgt 120
 cactgggagg ggacatcctg cagaaggtag gagtgcagca acacccgctg caggggaggg 180
 gagagccctg cggcacctgg gggagcagag ggagcagcac ctgcccaggc ctgggaggag 240
 gggcctggag ggcgtgagga ggagcaggg ggctgcagtg ctggagttag ggatcagggg 300
 cagggcgcgga gatggcctca cacaggggaag agagggcccc tctgcaggg cctcacctgg 360
 gccacaggag gacactgctt ttcctctgag gagtgcaggag ctgtggatgg tgctggacag 420
 aagaaggaca gggcctggct caggtgtcca gaggtgtcg ctggcttccc tttgggatca 480
 gactgcaggg agggagggcg gcagggttgt ggggggagtg acgatgagga tgacctgggg 540
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 tgaagtctc agacctgagg ttccctagag ttcaaacaga tacagcatgg tccagagtcc 2400

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cagatgtaca aaaacagggg ttcatacaaa atcccatctt tagcatgaag ggtctggcat 2460
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gttttcagac cttaaaaaaa aaaaaaaaaa aaaagtctt 3279

```

<210> 383

<211> 154

<212> PRT

<213> Homo sapiens

<400> 383

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Met Ala Gly Val Arg Asp Gln Gly Gln Gly Ala Arg Trp Pro His Thr
      5                                10                                15

Gly Lys Arg Gly Pro Leu Leu Gln Gly Leu Thr Trp Ala Thr Gly Gly
      20                                25                                30

His Cys Phe Ser Ser Glu Glu Ser Gly Ala Val Asp Gly Ala Gly Gln
      35                                40                                45

Lys Lys Asp Arg Ala Trp Leu Arg Cys Pro Glu Ala Val Ala Gly Phe
      50                                55                                60

Pro Leu Gly Ser Asp Cys Arg Glu Gly Gly Arg Gln Gly Cys Gly Gly
      65                                70                                75                                80

Ser Asp Asp Glu Asp Asp Leu Gly Val Ala Pro Gly Leu Ala Pro Ala
      85                                90                                95

Trp Ala Leu Thr Gln Pro Pro Ser Gln Ser Pro Gly Pro Gln Ser Leu
      100                                105                                110

Pro Ser Thr Pro Ser Ser Ile Trp Pro Gln Trp Val Ile Leu Ile Thr
      115                                120                                125

Glu Leu Thr Ile Pro Ser Pro Ala His Gly Pro Pro Trp Leu Pro Asn
      130                                135                                140

Ala Leu Glu Arg Gly His Leu Val Arg Glu
      145                                150

```

<210> 384

<211> 557
 <212> DNA
 <213> Homo sapiens

<400> 384
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 ggggaagggt cccttttgca ttgccaagtg ccataaaccat gagcactact ctaccatggg 180
 tctgcctcct ggccaagcag gctggtttgc aagaatgaaa tgaatgattc tacagctagg 240
 acttaacctt gaaatggaaa gtcttgcaat ccattttgca ggatccgtct gtgcacatgc 300
 ctctgtagag agcagcattc ccagggacct tggaaacagt tggcactgta aggtgcttgc 360
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 cctttcttatt tatgtgaaca actgtttgtc tttttttgta tcttttttaa actgtaaagt 480
 tcaattgtga aaatgaatat catgcaaata aattatgcga ttttttttcc aaagtaaaaa 540
 aaaaaaaaaa aaaaaaa 557

<210> 385
 <211> 337
 <212> DNA
 <213> Homo sapiens

<400> 385
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 gtttctctag cagcagatgg gttaggagga agtgacccaa gtggttgact cctatgtgca 120
 tctcaaagcc atctgctgtc ttcgagtacg gacacatcat cactcctgca ttgttgatca 180
 aaacgtggag gtgcttttcc tcagetaaga agcccttagc aaaagctcga atagacttag 240
 tatcagacag gtccagtttc cgcaccaaca cctgctgggt ccctgtcgtg gtctggatct 300
 ctttggccac caattccccc ttttccacat cccggca 337

<210> 386
 <211> 300
 <212> DNA
 <213> Homo sapiens

<400> 386
 gggcccgtcta ccggcccagg cccgcctcgc cgagtcctcc tccccgggtg cctgcccgca 60
 gccgcgtcgg cccagagggg gggcgcgggg ctgcctctac cggctggcgg ctgtaactca 120
 gcgaccttgg ccgaaggct ctagcaagga cccaccgacc ccagccgcgg cggcgcgggc 180
 gcggactttg cccggtgtgt ggggcgggagc ggactgcgtg tccgcggacg ggcagcgaag 240
 atgttagcct tcgctgccag gaccgtggac cgatcccagg gctgtggtgt aacctcagcc 300

<210> 387
 <211> 537
 <212> DNA
 <213> Homo sapiens

<400> 387
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 cccctcctg tgccatcatg atcagcacct atgagttcgg caaaagcttc ttccagaggc 120
 tgaaccagga ccggcttctg ggcggtgaa aggggcaagg aggcaaggac cccgtctctc 180
 ccacggatgg ggagagggca ggaggagacc cagccaagtg ccttttctctc agcactgagg 240
 gagggggctt gtttcccttc cctcccggcg acaagctcca gggcagggct gtccctctgg 300
 gcggcccagc acttctcag acacaacttc ttctgtctgc tccagtcgtg gggatcatca 360
 cttaccacc acccaagttc aagaccaaata cttccagctg ccccttctgt gtttccctgt 420

```

gtttgctgta gctgggcatg tctccaggaa ccaagaagcc ctcagcctgg tgtagtctcc 480
ctgacccttg ttaattcctt aagtctaaag atgatgaact tcaaaaaaaaa aaaaaaa 537

```

```

<210> 388
<211> 520
<212> DNA
<213> Homo sapiens

```

```

<400> 388
aggataattt ttaaaccaat caaatgaaaa aaacaaacaa acaaaaaaagg aaatgtcatg 60
tgagggttaaa ccagtttgca ttcccctaata gtggaaaaag taagaggact actcagcact 120
gtttgaagat tgcctcttct acagcttctg agaatttgtt tatttcactt gccaaagtga 180
ggacccccctc cccaacatgc ccagccccac ccctaagcat ggtcccttgt caccaggcaa 240
ccaggaaact gctacttgtg gacctcacca gagaccagga gggtttggtt agctcacagg 300
acttccccca cccagaaga ttagcatccc atactagact cataactcaac tcaactaggc 360
tcataactcaa ttgatgggta ttagacaatt ccatttcttt ctgggttatta taaacagaaa 420
atctttctctc ttctcattac cagtaaaggc tcttggtatc tttctgttgg aatgatttct 480
atgaacttgt cttattttta tggtggggtt tttttctggt 520

```

```

<210> 389
<211> 365
<212> DNA
<213> Homo sapiens

```

```

<400> 389
cgttgcccc a gtttgacaga aggaaaggcg gagcttattc aaagtctaga gggagtggag 60
gagttaaggc tggatttcag atctgcctgg ttccagccgc agtgtgccct ctgctcccc 120
aacgactttc caaataatct caccagcgcc ttccagctca ggcgtcctag aagcgtcttg 180
aagcctatgg ccagctgtct ttgtgttccc tctcaccgac ctgtcctcac agctgagact 240
cccaggaaac cttcagacta ccttcctctg ccttcagcaa ggggcgttgc ccacattctc 300
tgagggtcag tggaagaacc tagactccca ttgctagagg tagaaagggg aagggtgctg 360
gggag 365

```

```

<210> 390
<211> 221
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(221)
<223> n = A,T,C or G

```

```

<400> 390
tgctcttcca tcttggtccc gacttctctg tcaggaaagt ggggatggac cccatctgca 60
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gctctangag tctgancga ntcgttgccc cantntgaca naaggaaagg cggagcttat 180
tcaaagtcta gagggagtgg aggagttaag gctggatttc a 221

```

```

<210> 391
<211> 325
<212> DNA
<213> Homo sapiens

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<220>
 <221> misc_feature
 <222> (1)...(325)
 <223> n = A,T,C or G

<400> 391
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 ctctcgcgcc cagcctggag ctgctcctgg catctaccaa caatcagncg aggcgagcag 120
 tagccagggc actgctgcca acagccagtc cnnataccat catgtnaccc ggtgngctct 180
 naanttngat ntccanagcc ctacccatcn tagttctgct ctcccaccgg ntaccagccc 240
 cactgccag gaatcctaca gccagtaccc tgtcccgacg tctctaccta ccagtacgat 300
 gagacctccg gctactacta tgacc 325

<210> 392
 <211> 277
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(277)
 <223> n = A,T,C or G

<400> 392
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 antaccanga accgncatgn ctttaanaacn ncctggtttn tgggttnntc aatgactgca 180
 tgcagtgcac caccctgtcc actacgtgat gctgtaggat taaagtctca cagtgggcgg 240
 ctgaggatac agcgccgcgt cctgtgttgc tggggaa 277

<210> 393
 <211> 566
 <212> DNA
 <213> Homo sapiens

<400> 393
 actagtccag tgtggtggaa ttgcgggcgg cgtcgacgga caggtcagct gtctggctca 60
 gtgatctaca ttctgaagtt gtctgaaaat gtcttcatga tttaaattcag cctaaacgtt 120
 ttgccgggaa cactgcagag acaatgctgt gagtttccaa ccttagccca tctgcgggca 180
 gagaaggtct agtttgtcca tcagcattat catgatatca ggactgggta cttgggttaag 240
 gaggggtcta ggagatctgt cccttttaga gacacottac ttataatgaa gtatttggga 300
 ggggtggttt caaaagtaga aatgtcctgt attccgatga tcacccctgta aacattttat 360
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 ttctgcctca atgtttactg tgcctttgtt tttgctagtt tgtgttggtg aaaaaaaaaa 480
 cattctctgc ctgagtttta atttttgtcc aaagttattt taatctatac aattaaaagc 540
 ttttgcctat caaaaaaaaa aaaaaa 566

<210> 394
 <211> 384
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (1)...(384)

<223> n = A,T,C or G

<400> 394

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gaacatacat gtcccggcac ctgagctgca gtctgacatc atcgccatca cgggcctcgc 60
tgcaaattng gaccgggcca aggctggact gctggagcgt gtgaaggagc tacaggccna 120
gcaggaggac cgggctttaa ggagttttaa gctgagtgtc actgtagacc ccaaatacca 180
tcccaagatt atcggggagaa agggggcagc aattacccaa atccggttgg agcatgacgt 240
gaacatccag tttcctgata aggacgatgg gaaccagccc caggaccaa ttaccatcac 300
agggtacgaa aagaacacag aagctgccag ggatgctata ctgagaattg tgggtgaact 360
tgagcagatg gtttctgagg acgt 384

```

<210> 395

<211> 399

<212> DNA

<213> Homo sapiens

<400> 395

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ggcaaaactg tgtgacctca ataagacctc gcagatccaa ggtcaagtat cagaagtgac 60
tctgaccttg gactccaaga cctacatcaa cagcctggct atattagatg atgagccagt 120
tatcagaggt ttcattcattg cggaaattgt ggagtctaag gaaatcatgg cctctgaagt 180
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ccagctactt gtctgcaatt gtatcttcaa gaataccctg gccatccctt tgactgacgt 300
caagttctct ttggaaagcc tgggcattct ctcactacag acctctgacc atgggacggg 360
gcagcctggg gagaccatcc aatcccaaat aaaatgcac 399

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<210> 396

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(403)

<223> n = A,T,C or G

<400> 396

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tggagtntc agtgcaaaca agccataaag cttcagtagc aaattactgt ctacagaaa 60
gacattttca acttctgctc cagctgctga taaaacaaat catgtgttta gcttgactcc 120
agacaaggac aacctgttcc ttcataactc tctagagaaa aaaaggagtt gttagtagat 180
actaaaaaaaa gtggatgaat aatctggata tttttcctaa aaagattcct tgaaacacat 240
taggaaaatg gagggcctta tgatcagaat gctagaatta gtccattgtg ctgaagcagg 300
gttttagggga gggagtgagg gataaaaagaa ggaaaaaaaag aagagtgaga aaacctattt 360
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```

<210> 397

<211> 100

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(100)

<223> n = A,T,C or G

<400> 397
 actagtnacag tgtggtggaa ttcgcgcccg cgtcgaccta naanccatct ctatagcaaa 60
 tccatccccg ctcttggttg gtnacagaat gactgacaaa 100

<210> 398
 <211> 278
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(278)
 <223> n = A,T,C or G

<400> 398
 gggcgccgct cgacagcagt tccgccagcg ctgcccctg ggtggggatg tgctgcacgc 60
 ccacctggac atctggaagt cagcggcctg gatgaaagag cggacttcac ctggggcgat 120
 tcaactactgt gcctcgacca gtgaggagag ctggaccgac agcgaggttg actcatcatg 180
 ctccgggcag cccatccacc tgtggcagtt cctcaaggag ttgctactca agccccacag 240
 ctatggccgc ttcattangt ggctcaacaa ggagaagg 278

<210> 399
 <211> 298
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(298)
 <223> n = A,T,C or G

<400> 399
 acggaggttg aggaagcgnc cctgggatcg anaggatggg tcctgncatt gaccncctcn 60
 ggggtgccng catggagcgc atgggcgcgg gcctgggcca cggcatggat cgctggggct 120
 ccgagatcga gcgcatgggc ctggtcatgg accgcatggg ctccgtggag cgcatggggct 180
 ccggcattga gcgcatgggc ccgctggggc tcgaccacat ggctccanc attgancgca 240
 tgggcagac catggagcgc attggctctg gcgtggagcn catgggtgcc ggcattggg 298

<210> 400
 <211> 548
 <212> DNA
 <213> Homo sapiens

<400> 400
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 gtacatgtac atgtatgaaa tttccttctc ttaccgaact ctctccacac atcacaagg 120
 caaagaacca cacgcttaga agggtaagag ggcaccctat gaaatgaaat ggtgatttct 180
 tgagtctctt ttttccacgt ttaaggggcc atggcaggac ttagagttgc gagttaagac 240
 tgcagagggc tagagaatta tttcatacag gctttgaggc caccatgtc acttatccc 300
 tataccctct caccatcccc ttgtctactc tgatgcccc aagatgcaac tgggcagcta 360
 gttggcccca taattctggg cttttgttgt ttgttttaat tacttgggca tcccaggaag 420
 ctttccagtg atctcctacc atgggcccc ctctgaggat caagccctc ccaggccctg 480
 tccccagccc ctctgcccc agcccaccg cttgccttgg tgcacagccc tccattggg 540

agcagggtt

548

<210> 401

<211> 355

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(355)

<223> n = A,T,C or G

<400> 401

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tgatgtctcc aagtagtcca ccttcattta actccttgaa actgtatcat ctttgccaag 120
taagagtggg ggcctatttc agctgctttg acaaaatgac tggctcctga cttaacgttc 180
tataaatgaa tgtgctgaag caaagtgcc atgggtggcg cgaagaagan aaagatgtgt 240
tttgttttgg actctctgtg gtcccttcca atgctgnggg tttccaacca ggggaagggt 300
cccttttgca ttgccaagtg ccataaccat gagcactact ctaccatggn tctgc 355

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<210> 402

<211> 407

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(407)

<223> n = A,T,C or G

<400> 402

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tctcacatgc ggtggcatal ataggctcaa aataaaggaa tggagaaaaa tatttcaagc 120
aaatggaaaa cagaaaaaag cagggtgttg actcctactt tctgacaaaa cagactatgc 180
gaataaagat aaaaaagaga aggacattac aaagggtggtc ctgacctttg ataaatctca 240
ttgcttgata ccaacctggg ctgttttaat tgcccaaacc aaaaggataa tttgctgagg 300
ttgtggagct tctcccctgc agagagtccc tgatctccca aaatttggtt gagatgtaag 360
gntgatattg ctgacaactc cttttctgaa gttttactca tttccaa 407

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<210> 403

<211> 303

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(303)

<223> n = A,T,C or G

<400> 403

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cagtatttat agccnaactg aaaagctagt agcaggcaag tctcaaattc aggcacaaaa 60
tctaagcaa gagccatggc atggtgaaaa tgcaaaagga gactctggcc aatctacaaa 120
tagagaacaa gacctactca gtcataaaca aaaaggcaga caccaacatg gatctcatgg 180
gggattggat attgtaatta tagagcagga agatgacagt gatcgatcatt tggcacaaca 240

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tcttaacaac gaccgaaacc cattatattac ataaacctcc attcggtaac catgttgaaa 300
gga 303

<210> 404
<211> 225
<212> DNA
<213> Homo sapiens

<400> 404
aagtgttaact tttaaaaaatt tagtggatttt tgaaaatttct tagaggaaaag taaaggaaaa 60
attgtttaatg cactcatttta cctttacatg gtgaaagtgc tctcttgatc ctacaaacag 120
acattttcca ctctgtgtttc catagtgtgtt aagtgtatca gatgtgttgg gcatgtgaat 180
ctccaagtgc ctgtgttaata aataaagtat ctttatttca ttcat 225

<210> 405
<211> 334
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(334)
<223> n = A,T,C or G

<400> 405
gagctgttat actgtgagtt ctactaggaa atcatcaaatt ctgaggggttg tctggaggac 60
ttcaatacac ctccccccat agtgaatcag cttccagggg gtccagtccc tctccttact 120
tcatccccat cccatgccaa aggaagaccg tccctccttg gctcacagcc ttctctaggc 180
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ctggtgcggg tgtgcctcca gcttctgctc agtgcttcat ggacagtgtc cagcccatgt 300
cactctccac tctctcanng tggatccac ccct 334

<210> 406
<211> 216
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G

<400> 406
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gaaacaaaca cccaataaac tcggagtggc agactgacaa ctgtgagaca tgcaattgct 120
acnaaacaca aatttnatgt tgcacccttg tttctacacc tgtgggttat gacaaagaca 180
actgccaaag aatnttcaag aaggaggact gccant 216

<210> 407
<211> 413
<212> DNA
<213> Homo sapiens

<400> 407

```

gctgacttgc tagtatcatc tgcattcatt gaagcacaag aacttcatgc cttgactcat 60
gtaaatgcaa taggattaaa aaataaattt gatatcacat ggaaacagac aaaaaatatt 120
gtacaacatt gcacccagtg tcagattcta cacctggcca ctcaggaagc aagagttaat 180
cccagaggtc tatgtcctaa tgtgttatgg caaatggatg tcatgcacgt accttcattt 240
ggaaaattgt catttgtcca tgtgacagtt gatacttatt cacatttcat atgggcaacc 300
tgccagacag gagaaagtct tcccatgtta aaagacattt attatcttgt tttcctgtca 360
tgggagttcc agaaaaagtt aaaacagaca atggggccagg ttctgtagta aag 413

```

<210> 408
 <211> 183
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(183)
 <223> n = A,T,C or G

```

<400> 408
ggagctngcc ctcaattcct ccatntctat gttancatat ttaatgtctt ttgnnattaa 60
tnccttaacta gttaatcctt aaagggctan ntaatcctta actagtcctt ccattgtgag 120
cattatcctt ccagtattcn ccttctnttt tatttactcc ttctgtgcta cccatgtact 180
ntt 183

```

<210> 409
 <211> 250
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(250)
 <223> n = A,T,C or G

```

<400> 409
cccacgcatg ataagctctt tattttctgta agtcctgcta ggaaatcatc aaatctgacg 60
gtggttttggg ggacctgaac aaacctcctg taattaatca gctttcagtt tctcccccta 120
gtccctcctt caacaacata ggaggatcct ccccttcttt ctgctcacgg ccttatctag 180
gcttcccagt gccccagga cagcgtgggc tatgtttaca gcgcntcctt gctggggggg 240
ggcctatgc 250

```

<210> 410
 <211> 306
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(306)
 <223> n = A,T,C or G

```

<400> 410
ggctggtttg caagaatgaa atgaatgatt ctacagctag gacttaacct tgaaatggaa 60
agtcttgcaa tcccatttgc aggatccgtc tgtgcacatg cctctgtaga gagcagcatt 120

```

```

cccagggacc ttggaacag ttggcactgt aagggtgcttg ctccccaaga cacatcctaa 180
aagggtgttg aatgggtgaaa accgcttcct tctttattgc cccttcttat ttatgtgaac 240
nactggttgg ctttttttgn atctttttta aactggaaag ttcaattgng aaaatgaata 300
tcntgc                                           306

```

```

<210> 411
<211> 261
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

```

```

<400> 411
agagatattn cttaggtnaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaatgtc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
cttctctcaa ggngaggcaa a                                           261

```

```

<210> 412
<211> 241
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(241)
<223> n = A,T,C or G

```

```

<400> 412
gttcaatgtt acctgacatt totacaacac cccactcacc gatgtattcg ttgcccagtg 60
ggaacatacc agcctgaatt tggaaaaaat aattgtgttt cttgcccagg aaatactacg 120
actgactttg atggctccac aaacataacc cagtgtaaaa acagaagatg tggaggggag 180
ctgggagatt tctactgggta cattgaattc ccaaactacc cangcaatta ccagccaac 240
a                                           241

```

```

<210> 413
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(231)
<223> n = A,T,C or G

```

```

<400> 413
aactcttaca atccaagtga ctcatctgtg tgcttgaatc ctttccactg tctcatctcc 60
ctcatccaag tttctagtag cttctctttg ttgtgaagga taatcaaact gaacaacaaa 120
aagtttactc tctctatttg gaacctaaaa actctcttct tcttgggtct gagggctcca 180
agaatccttg aatcanttct cagatcattg gggacaccan atcaggaacc t           231

```



```

<400> 417
nagtcttcag gcccatcagg gaagttcaca ctggagagaa gtcatacata tgtactgtat 60
gtgggaaagg ctttactctg agttcaaato ttcaagccca tcagagagtc cacactggag 120
agaagccata caaatgcaat gagtgtggga agagcttcag gagggattcc cattatcaag 180
ttcatctagt ggtccacaca ggagagaaac cctataaatg tgagatatgt ggaagggt 240
tcantcaaag ttcgtatctt caaatccatc ngaaggncca cagtatanan aaacctttta 300
agt 303

```

```

<210> 418
<211> 328
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G

```

```

<400> 418
tttttgccgg tgggtggggca gggacgggac angagtctca ctctgttgcc caggctggag 60
tgcacaggca tgatctcggc tcactacaac cctgcctcc catgtccaag cgattcttgt 120
gcctcagcct tccctgtagc tagaattaca ggcacatgcc accacacca gctagttttt 180
gtatttttag tagagacagg gtttcaccat gttggccagg ctggtctcaa actcctnacc 240
tcagnngtca ggetggtctc aaactcctga cctcaagtga tctgcccacc tcagcctccc 300
aaagtgctan gattacaggc cgtgagcc 328

```

```

<210> 419
<211> 389
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(389)
<223> n = A,T,C or G

```

```

<400> 419
cctcctcaag acggcctgtg gtccgcctcc cggcaaccaa gaagcctgca gtgccatattg 60
acccttgagc catggactgg agcctgaaag gcagcgtaca cctgctcct gatcttgctg 120
cttgtttcct ctctgtggct ccattcatag cacagttgtt gcaactgaggc ttgtgcaggc 180
cgagcaaggc caagctggct caaagagcaa ccagtcaact ctgccacggg gtgccaggca 240
ccggttctcc agccaccaac ctcaactgct cccgcaaatt gcacatcagt tcttctaccc 300
taaaggtagg accaaagggc atctgctttt ctgaagtcct ctgctctatc agccatcacg 360
tggcagccac tcnggctgtg tcgacgcgg 389

```

```

<210> 420
<211> 408
<212> DNA
<213> Homo sapiens

```

```

<400> 420
gttctctcta actcctgcc aaaacagctc tcctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggtt tcttgtttct gctttttttc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgacttttgt gtttcggcat ggagaccgaa 180

```

```

gtccattga cacccttccc actgacccca taaaggaatc ctcatggcca caaggatttg 240
gccaaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gagtcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg aagtgcctatg acaaacctgg caagcccc 408

```

```

<210> 421
<211> 352
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(352)
<223> n = A,T,C or G

```

```

<400> 421
gctcaaaaat ctttttactg atnggcatgg ctacacaatc attgactatt acggaggcca 60
gaggagaatg aggcctggcc tgggagccct gtgcctacta naagcacatt agattatcca 120
ttcactgaca gaacagggtct tttttgggtc cttcttctcc accacnatat acttgagtc 180
ctccttcttg aagattcttt ggcagttgtc tttgtcataa cccacagggtg tagaaacaag 240
ggtgcaacat gaaatttctg tttcgtagca agtgcctgtc tcacaagttg gcangtctgc 300
cactccgagt ttattgggtg tttgtttcct ttgagatcca tgcatttctc gg 352

```

```

<210> 422
<211> 337
<212> DNA
<213> Homo sapiens

```

```

<400> 422
atgccaccat gctggcaatg cagcggggcg tcgaaggcct gcatatccag cccaagctgg 60
cgatgatcga cggcaaccgt tgccogaagt tgccgatgcc agccgaagcg gtggtcaagg 120
gcgatagcaa ggtgccggcg atcgcggcg cgtcaatcct ggccaaggtc agccgtgatc 180
gtgaaatggc agctgtcgaa ttgatctacc cgggttatgg catcggcggg cataagggtc 240
atccgacacc ggtgcacctg gaagccttgc agcggctggg gccgacgccg attcaccgac 300
gcttcttccg ccggtacggc tggcctatga aaattat 337

```

```

<210> 423
<211> 310
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(310)
<223> n = A,T,C or G

```

```

<400> 423
gctcaaaaat ctttttactg atatggcatg gctacacaat cattgactat tagaggccag 60
aggagaatga ggccctggcct gggagccctg tgcctactan aagcncatta gattatccat 120
tcaactgacag aacagggtctt ttttgggtcc ttcttctcca ccacgatata cttgcagtc 180
tccttcttga agattctttg gcagttgtct ttgtcataac ccacagggtg anaaacaagg 240
gtgcaacatg aaatttctgt ttcgtagcaa gtgcatgtct cacagttgtc aagtctgccc 300
tccgagttta 310

```

<210> 424
 <211> 370
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(370)
 <223> n = A,T,C or G

<400> 424
 gctcaaaaat ctttttactg ataggcatgg ctacacaatc attgactatt agaggccaga 60
 ggagaatgag gcctggcctg ggagccctgt gcctactaga agcacattag attatccatt 120
 cactgacaga acaggtcttt tttgggtcct tcttctccac cactgatatac ttgcagtcct 180
 ccttcttgaa gattcttttg cagttgtctt tgtcataacc cacaggtgta gaaacatcct 240
 gggtgaatct cctggaactc cctcattagg tatgaaatag catgatgcat tgcataaagt 300
 cacgaagggtg gcaaagatca caacgctgcc cagganaaca ttcattgtga taagcaggac 360
 tccgtcgacg 370

<210> 425
 <211> 216
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(216)
 <223> n = A,T,C or G

<400> 425
 aattgctatn nttttatttg ccactcaaaa taattaccaa aaaaaaaaaa tnttaaata 60
 taacaacnca acatcaaggc aaananaaca ggaatggntg actntgcata aatnggccga 120
 anattatcca ttatnttaag gggtgacttc aggntacagc acacagacaa acatgcccag 180
 gaggntntca ggaccgctcg atgtntnttg aggagg 216

<210> 426
 <211> 596
 <212> DNA
 <213> Homo sapiens

<400> 426
 cttccagtga ggataaccct gttgccccgg gccgagggtc tccattaggc tctgattgat 60
 tggcagtcag tgatggaagg gtgttctgat cattccgact gccccagggt tcgctggcca 120
 gctctctgtt ttgctgagtt ggcagtagga cctaatttgt taattaagag tagatgggtga 180
 gctgtccttg tattttgatt aacctaatgg ccttcccagc acgactcgga ttcagctgga 240
 gacatcacgg caacttttaa tgaaatgatt tgaagggccca ttaagaggca cttcccgtaa 300
 ttaggcagtt catctgcact gataacttct tggcagctga gctggctgga gctgtggccc 360
 aaacgcacac ttggcttttg gttttgagat acaactotta atcttttagt catgcttgag 420
 ggtggatggc cttttcagct ttaacccaat ttgcaactgc ttggaagtgt agccaggaga 480
 atacactcat atactcgtgg gcttagaggc cacagcagat gtcattggtc tactgcctga 540
 gtcccgcgtg tcccatccca ggaccttcca tcggcgagta cctgggagcc cgtgct 596

<210> 427
 <211> 107

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(107)
<223> n = A,T,C or G

<400> 427
gaagaattca agttaggttt attcaaaggg cttacngaga atcctanacc caggncaccag 60
cccgggagca gccttanaga gctcctgttt gactgcccgg ctcagng 107

<210> 428
<211> 38
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(38)
<223> n = A,T,C or G

<400> 428
gaacttcna anaangactt tattcactat ttacatt 38

<210> 429
<211> 544
<212> DNA
<213> Homo sapiens

<400> 429
ctttgctgga cggaataaaa gtggacgcaa gcatgacctc ctgatgaggg cgctgcattt 60
attgaagagc ggctgcagcc ctgcggttca gattaaaatc cgagaattgt atagacgccg 120
atatccacga actcttgaag gactttctga tttatccaca atcaaatacat cggttttcag 180
tttggtatggt ggctcatcac ctgtagaacc tgacttggcc gtggctggaa tccactcggt 240
gccttccact tcagttacac ctcaactcacc atcctctcct gttgggtctg tgctgcttca 300
agatactaag cccacatttg agatgcagca gccatctccc ccaattcctc ctgtccatcc 360
tgatgtgcag ttaaaaaatc tgccctttta tgatgtcctt gatgttctca tcaagcccac 420
gagtttagtt caaagcagta ttcagcgatt tcaagagaag ttttttattt ttgctttgac 480
acctcaacaa gttagagaga tatgcatatc cagggatttt ttgccagggtg gtaggagaga 540
ttat 544

<210> 430
<211> 507
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(507)
<223> n = A,T,C or G

<400> 430
cttatcncaa tggggctccc aaacttggct gtgcagtga aactccgggg gaattttgaa 60

```
<210> 431
<211> 392
<212> DNA
<213> Homo sapiens
```

```
<400> 431
gaaaattcag aatggataaa aacaaatgaa gtacaaaata tttagatttt acatagcgat 60
aaacaagaaa gcacttatca ggaggactta caaatggaag tacactctan aaccatcatc 120
tatcatggct aaatgtgaga ttagcacagc tgtattattt gtacattgca aacacctaga 180
aagagatggg aaacaaaatc ccaggagttt tgtgtgtgga gtctctgggtt ttccaacaga 240
catcatctcca gcattctgag attaggngna ttggggatca ttctggagtt ggaatgttca 300
acaaaagtga tgttgttagg taaaatgtac aacttctgga tctatgcaga cattgaaggt 360
gcaatqagtc tggcttttag tctgctgttt ct
392
```

```
<220>  
<221> misc_feature  
<222> (1)...(387)  
<223> n = A,T,C or G
```

```
<210> 433
<211> 281
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc feature
```

<222> (1)...(281)

<223> n = A,T,C or G

<400> 433

```
ttcaactagc anagaanact gcttcagggn gtgtaaaatg aaaggcttcc acgcagttat 60
ctgattaaaag aacactaaga gagggacaag gctagaagcc gcaggatgtc tacactatag 120
caggcnctat ttgggttggc tggaggagct gtggaaaaca tggagagatt ggcgctggag 180
atcgccgtgg ctattcctcn ttgntattac accagnagag ntctctgtnt gccactggt 240
tnnaaaaccg ntatacaata atgatagaat aggacacaca t 281
```

<210> 434

<211> 484

<212> DNA

<213> Homo sapiens

<400> 434

```
ttttaaaata agcatttagt gctcagtcct tactgagtac tttttctctc cctcctctctg 60
aatttaattc tttcaacttg caatttgcaa ggattacaca tttcactgtg atgtatattg 120
tgttgcaaaa aaaaaaaagt gtctttgttt aaaattactt ggtttgtaga tccatcttgc 180
tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa acatctgaag 240
agctagtcta tcagcatctg acaggtgaat tggatggttc tcagaacctt ttcaccaga 300
cagcctgttt ctatcctgtt taataaatta gtttggttct tctacatgca taacaaaccc 360
tgctccaatc tgtcacataa aagtctgtga cttgaagttt agtcagcacc cccaccaaac 420
tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataaag taccatgtc 480
ttta 484
```

<210> 435

<211> 424

<212> DNA

<213> Homo sapiens

<400> 435

```
gcgccgctca gagcaggcca ctttctgcct tccacgtcct ccttcaagga agccccatgt 60
gggtagcttt caatatcgca ggttcttact cctctgcctc tataagctca aaccaccaa 120
cgatcgggca agtaaacccc ctccctcgcc gacttcggaa ctggcgagag ttcagcgag 180
atgggcctgt ggggaggggg caagatagat gagggggagc ggcattggtgc ggggtgaccc 240
cttgagagag ggaaaaaggc cacaagaggg gctgccaccg ccaactaacg agatggccct 300
ggtagagacc tttgggggtc tggaaacctc ggactcccca tgctctaaact cccacactct 360
gctatcagaa acttaaaactt gaggattttc tctgtttttc actcgcaata aattcagagc 420
aaac 424
```

<210> 436

<211> 667

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(667)

<223> n = A,T,C or G

<400> 436

```
accttgggaa nactctcaca atataaaggg tcgtagactt tactccaaat tccaaaaagg 60
tcttgcccat gtaatctga aagttttccc aaggtagcta taaaatcctt ataaggggtgc 120
```

```

agcctcttct ggaattcctc tgatttcaaa gtctcactct caagttcttg aaaacgaggg 180
cagttcctga aaggcaggta tagcaactga tcttcagaaa gaggaactgt gtgcaccggg 240
atgggctgcc agagtaggat aggattccag atgctgacac cttctggggg aaacagggct 300
gccaggtttg tcatagcact catcaaagtc cgggtcaacgt ctgtgcttcg aatataaacc 360
tgttcatgtt tataggactc attcaagaat tttctatata tctttcttat atactctcca 420
agttcataat gctgctccat gccagctgg gtgagttggc caaatccttg tggccatgag 480
gattccttta tggggtcagt gggaaagggt tcaatgggac ttcgggtctcc atgccgaaac 540
accaaagtca caaacttcaa ctccctggct agtacacttc ggtctagcca gaaaaaaagc 600
agaaacaaga agccaaggct aaggcttgct gccctgccag gaggaggggt gcagctctca 660
tgttgag 667

```

```

<210> 437
<211> 693
<212> DNA
<213> Homo sapiens

```

```

<400> 437
ctacgtctca accctcattt ttaggtaagg aatcttaagt ccaaagatat taagtgactc 60
acacagccag gtaaggaaag ctggattggc acactaggac tctaccatac cgggttttgt 120
taaagctcag gttaggaggc tgataagctt ggaaggaaact tcagacagct ttttcagatc 180
ataaaaagata attcttagcc catgttcttc tccagagcag acctgaaatg acagcacagc 240
aggtaactct ctattttcac cctcttggct tctactctct ggcagtcaga cctgtgggag 300
gccatgggag aaagcagctc tctggatgtt tgtacagatc atggactatt ctctgtggac 360
catttctcca ggttacccta ggtgtcacta ttggggggac agccagcatc tttagctttc 420
atgtgagttt ctgtctgtct tcagtagagg aaacttttgc tcttcacact tcacatctga 480
acacctaact gctgttgctc ctgaggtggg gaaagacaga tatagagctt acagtattta 540
tcctatttct aggcaactgag ggctgtgggg taccttggg tgccaaaaca gatcctgttt 600
taaggacatg ttgcttcaga gatgtctgta actatctggg ggctctgttg gctctttacc 660
ctgcatcatg tgctctcttg gctgaaaatg acc 693

```

```

<210> 438
<211> 360
<212> DNA
<213> Homo sapiens

```

```

<400> 438
ctgcttatca caatgaatgt tctcctgggc agcgttgtga tctttgccac cttcgtgact 60
ttatgcaatg catcatgcta ttccatacct aatgagggag ttccaggaga ttcaaccagg 120
atgtttctac acctgtgggt tatgacaaaag acaactgcc aagaatcttc aagaaggagg 180
actgcaagta tatctgggtg agaagaagga cccaaaaaag acctgttctg tcagtgaatg 240
gataatctaa tgtgcttcta gtaggcacag ggctcccagg ccaggcctca ttctcctctg 300
gcctctaata gtcaataatt gtgtagccat gcctatcagt aaaaagattt ttgagcaaac 360

```

```

<210> 439
<211> 431
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(431)
<223> n = A,T,C or G

```

```

<400> 439

```

```

gttcctnnta actcctgcc aaaacagctc tctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggt tcttgtttct gcttttttcc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180
gtcccattga cacctttccc actgacccca taaaggaatc ctcattggcca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gattcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgctga cgcggccgcg 420
aatttagtag t                                     431

```

<210> 440
 <211> 523
 <212> DNA
 <213> Homo sapiens

```

<400> 440
agagataaag cttaggtcaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaatgtc tgaaatggaa cagatttcaa aaaaaaacc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttaccat cagttccagc 240
cttctctcaa ggagaggcaa agaaaggaga tacagtggag acatctggaa agttttctcc 300
actgaaaaac tgctactatc tgtttttata tttctgttaa aatatatgag gctacagaac 360
taaaaattaa aacctctttg tgtcccttgg tcttggaaca ttatgttcc ttttaaagaa 420
acaaaaatca aactttacag aaagatttga tgtatgtaac acatatagca gctcttgaag 480
tatatatatc atagcaaata agtcatctga tgagaacaag cta                                     523

```

<210> 441
 <211> 430
 <212> DNA
 <213> Homo sapiens

```

<400> 441
gttcctccta actcctgcc aaaacagctc tctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggt tcttgtttct gcttttttcc tggctagacc 120
gaagtgtact agccaaggag ttgaagtttg tgactttggt gtttcggcat ggagaccgaa 180
gtcccattga cacctttccc actgacccca taaaggaatc ctcattggcca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatatagaaa attcttgaat gattcctata aacatgaaca ggtttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgctga cgcggccgcg 420
aatttagtag                                     430

```

<210> 442
 <211> 362
 <212> DNA
 <213> Homo sapiens

```

<400> 442
ctaaggaatt agtagtggtc ccatcacttg tttggagtgt gctattotaa aagattttga 60
tttcttgtaa tgacaattat attttaactt tgggtgggga aagagttata ggaccacagt 120
cttcaattct gatacttgta aattaatctt ttattgcact tgttttgacc attaagctat 180
atgttttagaa atggtcattt tacggaaaaa ttagaaaaat tctgataata gtgcagaata 240
aatgaattaa tgttttactt aatttatatt gaactgtcaa tgacaaataa aaattctttt 300
tgattatatt ttgttttcat ttaccagaat aaaaactaag aattaaaagt ttgattacag 360
tc                                     362

```

<210> 443
 <211> 624
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(624)
 <223> n = A,T,C or G

<400> 443
 tttttttttt gcaacacaat atacatcaca gtgaaatgtg taatccttgc aaattgcaag 60
 ttgaaagaat taaattcaga ggaggggaga gaaagagtag tcagtaggga ctgagcacta 120
 aatgcttatt ttaaaagaaa tgtaaagagc agaaagcaat tcaggctacc ctgccttttg 180
 tgctggctag tactccggtc ggtgtcagca gcacgtggca ttgaacattg caatgtggag 240
 cccaaaccac agaaaatggg gtgaaattgg ccaactttct attaacttgg cttcctgttt 300
 tataaaatat tgtgaataat atcacctact tcaaagggca gttatgaggc ttaaataaac 360
 taacgcctac aaaacactta aacatagata acataggtgc aagtactatg tatctggtag 420
 atggtaaaca tccttattat taaagtcaac gctaaaatga atgtgtgtgc atatgctaata 480
 agtacagaga gagggcactt aaaccaacta agggcctgga gggaagggtt cctggaaaga 540
 ngatgcttgt gctgggtcca aatcttggtc tactatgacc ttggccaaat tatttaaact 600
 ttgtccctat ctgctaaaca gatc 624

<210> 444
 <211> 425
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(425)
 <223> n = A,T,C or G

<400> 444
 gcacatcatt nntcttgcatt tctttgagaa taagaagatc agtaaatagt tcagaagtgg 60
 gaagctttgt ccaggcctgt gtgtgaaccc aatgttttgc ttagaaatag aacaagtaag 120
 ttcatgtcta tagcataaca caaaatttgc ataagtgggtg gtcagcaaata ccttgaatgc 180
 tgcttaatgt gagagggttg taaaatcctt tgtgcaacac tctaactccc tgaatgtttt 240
 gctgtgctgg gacctgtgca tgccagacaa ggccaagctg gctgaaagag caaccagcca 300
 cctctgcaat ctgccacctc ctgctggcag gatttgtttt tgcacacctg gaagagccaa 360
 ggaggcacca gggcataagt gagtagactt atggctcgacg cggccgcgaa tttagtagta 420
 gtaga 425

<210> 445
 <211> 414
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(414)
 <223> n = A,T,C or G

<400> 445

```

catgtttatg nttttggatt actttgggca cctagtgttt ctaaactcgtc tatcattctt 60
ttctgttttt caaaagcaga gatggccaga gtctcaacaa actgtatctt caagtctttg 120
tgaaattctt tgcattgtggc agattattgg atgtagtctt ctttaactag catataaatc 180
tgggtgtgtt cagataaatg aacagcaaaa tgtgggtggaa ttaccatttg gaacattgtg 240
aatgaaaaat tgtgtctcta gattatgtaa caaataacta tttcctaacc attgatcttt 300
ggatttttat aatcctactc acaaattgact aggcttctcc tcttgtatct tgaagcagtg 360
tgggtgctgg attgataaaa aaaaaaaaaa tgcagcgggc cgcaattta gtag 414

```

```

<210> 446
<211> 631
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(631)
<223> n = A,T,C or G

```

```

<400> 446
acaaattaga anaaagtgcc agagaacacc acataccttg tccggaacat tacaatggct 60
tctgcatgca tgggaagtgt gagcattcta tcaatatgca ggagccatct tgcagggtgtg 120
atgctgggta tactggacaa cactgtgaaa aaaaggacta cagtgttcta tacgttggtc 180
ccggtcctgt acgatttcag tatgtcttaa tgcagctgtg gattggaaca attcagattg 240
ctgtcatctg tgtgggtggc ctctgcatca caagggccaa actttaggta atagcattgg 300
actgagattt gtaaaacttc caaccttcca ggaaatgccc cagaagcaac agaattcaca 360
gacagaagca aaatacaggg cactacagtt cagacaatac aacaagagcg tccacgaggt 420
taatctaaag ggagcatggt tcacagtggc tggactaccg agagcttgga ctacacaata 480
cagtattata gacaaaagaa taagacaaga gatctacaca tgttgccctg catttggtgt 540
aatctacacc aatgaaaaca tgtactacag ctatatattga ttatgtatgg atatatttga 600
aatagtatac attgtcttga tgttttttct g 631

```

```

<210> 447
<211> 585
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(585)
<223> n = A,T,C or G

```

```

<400> 447
ccttgggaaa antntcacia tataaagggt cgtagacttt actccaaatt ccaaaaagggt 60
cctggccatg taatcctgaa agttttccca aggtagctat aaaatcctta taagggtgca 120
gcctcttctg gaattcctct gatttcaaag tctcactctc aagttcttga aaacgagggc 180
agttcctgaa aggaggtat agcaactgat cttcagaaag aggaactgtg tgcaccggga 240
tgggctgcca gaggtagata ggattccaga tgctgacacc ttctggggga aacagggtctg 300
ccaggtttgt catagcactc atcaaagtcc ggtcaacgtc tgtgcttcga atataaacct 360
gttcatgttt ataggactca ttcaagaatt ttctatatct ctttcttata tactctccaa 420
gttcataatg ctgctccatg cccagctggg tgagttggcc aaatccttgt ggccatgagg 480
attcctttat ggggtcagtg ggaaagggtg caatgggact tccgtctcca tgccgaaaca 540
ccaaagtcac aaacttcaac tccttggcta gtacacttcg gtcta 585

```

```

<210> 448

```

<211> 93
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(93)
 <223> n = A,T,C or G

<400> 448
 tgctcgtggg tcattctgan nnccgaactg accntgccag ccctgccgan gggccnccat 60
 ggctccctag tgccctggag agganggggc tag 93

<210> 449
 <211> 706
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(706)
 <223> n = A,T,C or G

<400> 449
 ccaagttcat gctntgtgct ggacgctgga cagggggcaa aagcnnttgc tcgtgggtca 60
 ttctganac cgaactgacc atgccagccc tgccgatggc cctccatggc tccctagtgc 120
 cctggagagg aggtgtctag tcagagagta gtccctggaag gtggcctctg ngaggagcca 180
 cggggacagc atcctgcaga tggtcgggag cgtcccattc gccattcagg ctgcgcaact 240
 gttgggaagg gcgatcgggt cgggcctctt cgctattacg ccagctggcg aaagggggat 300
 gtgctgcaag gcgattaagt tgggtaacgc cagggttttc ccagtncga cgttgtaaaa 360
 cgacggccag tgaattgaat ttaggtgacn ctatagaaga gctatgacgt cgcattgcacg 420
 cgtacgtaag cttggatcct ctagagcggc cgcctactac tactaaattc ggggcccgcgt 480
 cgacgtggga tccncaactga gagagtggag agtgacatgt gctggacnct gtccatgaag 540
 cactgagcag aagctggagg cacaacgcnc cagacactca cagctactca ggaggctgag 600
 aacaggttga acctgggagg tggaggttgc aatgagctga gatcaggccn ctgcncacca 660
 gcatggatga cagagtgaaa ctccatctta aaaaaaaaaa aaaaaa 706

<210> 450
 <211> 493
 <212> DNA
 <213> Homo sapiens

<400> 450
 gagacggagt gtcactctgt tgcccaggct ggagtgcagc aagacactgt ctaagaaaaa 60
 acagttttta aaggtaaaaa aacataaaaa gaaatatcct atagtggaaa taagagagtc 120
 aaatgaggct gagaacttta caaagggatc ttacagacat gtcgccaata tcaactgcatg 180
 agcctaagta taagaacaac ctttggggag aaaccatcat ttgacagtga ggtacaattc 240
 caagtcagggt agtgaatagg gtggaattaa actcaaatat atcctgccag ctgaaacgca 300
 agagacactg tcagagagtt aaaaagttag ttctatccat gaggtgattc cacagtcttc 360
 tcaagtcaac acatctgtga actcacagac caagttctta aaccactgtt caaactctgc 420
 tacacatcag aatcacctgg agagctttac aaactcccat tgccgagggt cgacgcggcc 480
 gcgaatttag tag 493

<210> 451

<211> 501
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

<400> 451
 gggcgcgtcc cattogccat tcaggctgcg caactgttgg gaagggcgat cgggtgcgggc 60
 ctcttcgcta ttacgccagc tggcgaaagg gggatgtgct gcaagggcgat taagttgggt 120
 aacgccaggg ttttcccagt cncgacgttg taaaacgacg gccagtgaat tgaatttagg 180
 tgacnctata gaagagctat gacgtcgcat gcacgcgtac gtaagcttgg atcctctaga 240
 gcggccgcct actactacta aattcgcggc cgcgtgcacg tgggatccnc actgagagag 300
 tggagagtga catgtgotgg acnctgtcca tgaagcactg agcagaagct ggaggcacia 360
 cgcncagac actcacagct actcaggagg ctgagaacag gttgaacctg ggaggtggag 420
 gttgcaatga gctgagatca ggcncctgcn cccagcatg gatgacagag tgaaactcca 480
 tcttaaaaaa aaaaaaaaaa a 501

<210> 452
 <211> 51
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(51)
 <223> n = A,T,C or G

<400> 452
 agacggtttc accnttacia cnccttttag gatgggnntt ggggagcaag c 51

<210> 453
 <211> 317
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(317)
 <223> n = A,T,C or G

<400> 453
 tacatcttgc tttttcccca ttggaactag tcattaaccc atctctgaac tggtagaaaa 60
 acatctgaag agctagtcta tcagcatctg gcaagtgaat tggatggttc tcagaaccat 120
 ttcacccana cagcctgttt ctatcctgtt taataaatta gtttgggttc tctacatgca 180
 taacaaaccc tgctccaatc tgtcacataa aagtctgtga cttgaagttt antcagcacc 240
 cccaccaaac tttatttttc tatgtgtttt ttgcaacata tgagtgtttt gaaaataagg 300
 taccatgctc tttatta 317

<210> 454
 <211> 231
 <212> DNA

<213> Homo sapiens

<400> 454

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ttcgaggtag aatcaactct cagagtgtag tttccttcta tagatgagtc agcattaata 60
taagccacgc cacgctcttg aaggagtctt gaattctcct ctgctcactc agtagaacca 120
agaagaccaa attctttctgc atcccagctt gcaaacaaaa ttgttcttct aggtctccac 180
ccttcctttt tcagtgttcc aaagctcctc acaatttcat gaacaacagc t 231
```

<210> 455

<211> 231

<212> DNA

<213> Homo sapiens

<400> 455

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taccaaagag ggcataataa tcagtctcac agtaggggtc accatcctcc aagtgaaaaa 60
cattgttccg aatgggcttt ccacaggcta cacacacaaa acaggaaaca tgccaagttt 120
gtttcaacgc attgatgact totccaagga tcttcctttg gcacgcacca cattcagggg 180
caaagaattt ctcatagcac agctcacaat acagggtctc tttctcctct a 231
```

<210> 456

<211> 231

<212> DNA

<213> Homo sapiens

<400> 456

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ttggcaggta cccttacaaa gaagacacca taccttatgc gttattaggt ggaataatca 60
ttccattcag tattatcggtt attattcttg gagaaacct gtctgtttac tgtaaccttt 120
tgcactcaaa ttcctttatc aggaataact acatagccac tatttacaaa gccattggaa 180
cctttttatt tgggtgcagct gctagtcagt cctgactga cattgccaag t 231
```

<210> 457

<211> 231

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(231)

<223> n = A,T,C or G

<400> 457

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cgaggtagcc aggggtctga aaatctctnn tttantagtc gatagcaaaa ttgttcatca 60
gcattcctta atatgatctt gctataatta gatttttctc cattagagtt catacagttt 120
tatttgattt tattagcaat ctctttcaga agacccttga gatcattaag ctttgtatcc 180
agttgtctaa atcgatgcct catttctctt gaggtgtcgc tggcttttgt g 231
```

<210> 458

<211> 231

<212> DNA

<213> Homo sapiens

<400> 458

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aggtctgggt cccccactt ccaactccct ctactctctc taggactggg ctgggccaag 60
agaagagggg tggttaggga agccgttgag acctgaagcc ccaccctcta ctttcttca 120
```

acaccctaac cttgggtaac agcatttgga attatcattt gggatgagta gaatttccaa 180
 ggtcctgggt taggcatttt ggggggcccag accccaggag aagaagattc t 231

<210> 459
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 459
 ggtaccgagg ctgcgtgaca cagagaaacc ccaacgcgag gaaaggaatg gccagccaca 60
 ccttcgcgaa acctgtggtg gccaccagt cctaacggga caggacagag agacagagca 120
 gccctgcact gttttccctc caccacagcc atcctgtccc tcattggctc tgtgctttcc 180
 actatacaca gtcaccgtcc caatgagaaa caagaaggag caccctccac a 231

<210> 460
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 460
 gcaggtataa catgctgcaa caacagatgt gactaggaac ggccggtgac atggggaggg 60
 cctatcacc cttcttggg ggctgcttct tcacagtgat catgaagcct agcagcaaat 120
 cccacctccc cacacgcaca cggccagcct ggagcccaca gaagggtcct cctgcagcca 180
 gtggagcttg gtccagcctc cagtccacc ctagcagggt taaggataga a 231

<210> 461
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 461
 cgaggtttga gaagctctaa tgtgcagggg agccgagaag caggcgccct agggagggtc 60
 gcgtgtgctc cagaagagt tgtgcatgcc agaggggaaa caggcgccct tgtgtcctgg 120
 gtggggttca gtgaggagt ggaaatttgt tcagcagaac caagccgttg ggtgaataag 180
 agggggattc catggcactg atagagccct atagtctcag agctgggaat t 231

<210> 462
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 462
 aggtaccctc attgtagcca tgggaaaatt gatgttcagt ggggatcagt gaattaaatg 60
 ggtcatgca agtataaaaa ttaaaaaaaaa aagacttcat gcccaatctc atatgatgtg 120
 gaagaactgt tagagagacc aacagggtag tgggttagag atttccagag tcttacattt 180
 tctagaggag gtattttaatt tcttctcact catccagtgt tgtatttagg a 231

<210> 463
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 463
 tactccagcc tgggtgacaga gcgagaccct atcaccgccc cccacccccc caaaaaaaaa 60

actgagtaga caggtgtcct cttggcatgg taagtcttaa gtccctccc agatctgtga 120
 catttgacag gtgtcttttc ctctggacct cgggtgtccc atctgagtga gaaaaggcag 180
 tggggaggtg gatcttccag tcgaagcggg atagaagccc gtgtgaaaag c 231

<210> 464

<211> 231

<212> DNA

<213> Homo sapiens

<400> 464

gtactctaag attttatcta agttgccttt tctgggtggg aaagttaac cttagtgtact 60
 aaggacatca catatgaaga atgtttaagt tggagggtggc aacgtgaatt gcaaacaggg 120
 cctgcttcag tgactgtgtg cctgtagtcc cagctactcg ggagtctgtg tgaggccagg 180
 ggtgccagcg caccagctag atgctctgta acttctaggg cccattttcc c 231

<210> 465

<211> 231

<212> DNA

<213> Homo sapiens

<400> 465

catgttggtg tagctgtggg aatgctggct gcatctcaga cagggttaac ttcagctcct 60
 gtggcaaat agcaacaaat tctgacatca tatttatggg ttctgtatct ttgttgatga 120
 aggatggcac aatttttgcg tgtgttcata atatactcag attagttcag ctccatcaga 180
 taaactggag acatgcagga cattagggtg gtgttgtagc tctggtaatg a 231

<210> 466

<211> 231

<212> DNA

<213> Homo sapiens

<400> 466

caggtacctc ttccattgg atactgtgct agcaagcatg ctctccgggg tttttttaat 60
 ggcttcgaa cagaacttgc cacataccca ggtataatag tttctaacaat ttgccagga 120
 cctgtgcaat caaatattgt ggagaattcc ctagctggag aagtcacaaa gactataggc 180
 aataatggag accagtccca caagatgaca accagtcgtt gtgtgcggct g 231

<210> 467

<211> 311

<212> DNA

<213> Homo sapiens

<400> 467

gtacaccctg gcacagtcca atctgaactg gtccggcact catctttcat gagatggatg 60
 tgggtggcttt tctccttttt catcaagact cctcagcagg gagcccagac cagcctgcac 120
 tgtgccttaa cagaaggctc tgagattcta agtgggaatc atttcagtga ctgtcatgtg 180
 gcatgggtct ctgcccaagc tcgtaatgag actatagcaa ggcggctgtg ggacgtcagt 240
 tgtgacctgc tgggcctccc aatagactaa caggcagtgc cagttggacc caagagaaga 300
 ctgcagcaga c 311

<210> 468

<211> 3112

<212> DNA

<213> Homo sapiens

<400> 468

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aagatctgca tgggtgggaag gacctgatga tacagagttt gataggagac aattaaaggc 120
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aaatgggata cacagtatga tctataaagt gggatatagt atgatctact tcaactgggt 420
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gattatcatt caatctcata gttttgtcat ggccaattt atcctcactt gtgcctcaac 600
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<212> DNA

<213> Homo sapiens

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gccgacaggg tgaatgcctt cttgcttgct ttctggggaa tcagagagag tccgttttgt 1440
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<210> 475
<211> 2414
<212> DNA
<213> Homo sapiens

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<220>
<221> unsure
<222> (33)
<223> n=A,T,C or G

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<210> 476

<211> 3434

<212> DNA

<213> Homo sapiens

<400> 476

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<210> 477

<211> 140

<212> PRT

<213> Homo sapiens

<400> 477

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Met Asp Gly His Thr Asp Ile Trp Arg Asn His Met Asp Thr Pro Pro
                5                10                15

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His Tyr His Arg Asp Thr Asp Thr Arg Arg His His His Met Asp Thr
                20                25                30

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Leu Ser His Tyr His Arg Asp Thr Arg His His Thr Val Thr Trp Thr
                35                40                45

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His His His Thr His Glu His Thr Asp Thr Leu Pro Tyr Gly His Trp
                50                55                60

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His Thr His Cys His Thr Val Thr Trp Thr His Leu His Thr Ile Thr
                65                70                75                80

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Pro Pro His Thr Leu Pro Val Asp Thr Arg Thr His Arg His Cys His
                85                90                95

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Thr Asp Thr Gln Asn Thr Val Thr Arg Arg His His His Ala Asp Thr
                100                105                110

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Pro Pro Leu Trp Cys Arg Leu Asn Tyr Pro Ala Gly Gly Thr Ala Val
                115                120                125

```

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Ala Tyr Ser Cys Leu Ser Asp Trp Leu Ser Pro Gln
                130                135                140

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<210> 478

<211> 143

<212> PRT

<213> Homo sapiens

<400> 478

Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln
 5 10 15

Ser His Gly His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
 20 25 30

Gly Glu Ile Thr Trp Thr His His His Thr Ile Thr Gly Thr Gln Thr
 35 40 45

His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
 50 55 60

Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr
 65 70 75 80

Pro Thr His Cys His Met Asp Thr Gly Thr His Thr Ala Thr Leu Ser
 85 90 95

His Gly His Thr Ser Thr Pro Ser His His His Thr His Cys Leu Trp
 100 105 110

Thr Gln Gly His Thr Asp Thr Val Thr Gln Ile His Lys Thr Leu Ser
 115 120 125

His Gly Asp Ile Thr Met Gln Ile His His His Ser Gly Ala Val
 130 135 140

<210> 479

<211> 222

<212> PRT

<213> Homo sapiens

<400> 479

Met Tyr Arg His Thr Glu Thr Leu Pro His Gly Asp Thr Val Thr Gln
 5 10 15

Ser His Glu His Thr Gly Ile Val Thr Trp Thr Asp Thr Gln Thr Tyr
 20 25 30

Gly Glu Ile Thr Leu Thr His His His Thr Ile Thr Gly Thr Gln Thr
 35 40 45

His Gly Asp Ile Thr Thr Trp Thr His Cys His Thr Thr Thr Gly Thr
 50 55 60

Arg Asp Ile Thr Leu Ser His Gly His Thr Ile Thr His Met Asn Thr
 65 70 75 80

Pro Thr His Cys His Met Asp Thr Ala Thr His Thr Ala Thr Leu Ser
 85 90 95

His Gly His Thr Ser Ile Pro Ser His His His Thr His Cys His Val

100 105 110
 Asp Thr Arg Thr His Arg His Cys His Thr Asp Thr Gln Asn Thr Val
 115 120 125
 Thr Arg Arg His His His Ala Asp Thr Pro Pro His Gly His Ser Thr
 130 135 140
 Arg His Ser Ala Thr Gln Ile His His His Thr Glu Met Arg Thr His
 145 150 155 160
 Cys His Thr Asp Thr Thr Thr Ser Leu Pro His Phe His Val Ser Ala
 165 170 175
 Gly Gly Val Gly Pro Thr Thr Leu Gly Ser Asn Arg Glu Ile Thr Trp
 180 185 190
 Thr Tyr Ser Glu Gly Lys Ile Phe Phe Tyr Phe Leu Gly Asn Gln Ala
 195 200 205
 Arg Leu Cys Leu Lys Lys Arg Lys Lys Lys Gln Tyr Thr Val
 210 215 220

 <210> 480
 <211> 144
 <212> PRT
 <213> Homo sapiens

 <400> 480
 Met Glu Pro Tyr Arg Gly Asn Glu Gln Pro Ser Gln Glu Gln Gly Val
 5 10 15
 Cys Cys Leu Trp Gly Leu Gln Ser Leu Pro Gln Gly Ser Tyr Val Thr
 20 25 30
 Val Gly Phe Leu Val Val Lys Arg Gln Thr Ile Gly Arg Leu Glu Arg
 35 40 45
 Asp Phe Met Phe Lys Cys Arg Lys Gln Pro Gly Leu Pro Pro Ser Gly
 50 55 60
 Leu Cys Leu Leu Trp Pro Trp Pro Asn Leu Glu Phe Gly Arg Arg Gln
 65 70 75 80
 Asp Arg Leu Thr Trp Ser Ser Val Ser Val Ala Gly Val Cys Ala Cys
 85 90 95
 Arg Ala Arg Pro Gly Trp Leu Gly Glu Gln Pro Ala Thr Ser Ala Gly
 100 105 110
 Val Arg Leu Glu Gln Val Glu Gln Pro Pro Ala His Pro Leu Gln Glu
 115 120 125

Ala Gly Val Ala Arg Phe Pro Arg Pro Glu Trp Val Pro Pro Asn Gly
 130 135 140

<210> 481
 <211> 167
 <212> PRT
 <213> Homo sapiens

<400> 481
 Met His Gly Pro Gln Val Leu Ala Arg Cys Ser Glu Cys Ala Cys Pro
 5 10 15
 Ala Leu Ala Ala Thr Ser Ala Gly Val Arg Leu Glu Gly Val Asp Arg
 20 25 30
 Pro Pro Thr Leu Pro Ser Gln Gly Ser Gly Trp Pro Cys Ser His Ser
 35 40 45
 Leu Ser Gly Cys His Leu Met Ala Asp Gly Ala Lys Ala Leu Gly Lys
 50 55 60
 Ala Asp Gly Pro Trp Pro Tyr Leu Phe Val Arg Arg Thr Asp Val Pro
 65 70 75 80
 Cys Pro Ala Ala Ser Glu Val Gly Gly Cys Ala Pro Ser Ser Trp Arg
 85 90 95
 Ala Leu Ala Glu Val Thr Gly Cys Ser Leu Gly Pro Leu Gly Leu Ala
 100 105 110
 Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys Trp Ser His
 115 120 125
 Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr Ala Ala Phe
 130 135 140
 Gly Gly Ser Ser Pro Cys Leu Lys Gly Leu Met Ser Leu Trp Ala Ser
 145 150 155 160
 Trp Leu Ser Arg Gly Arg Pro
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<210> 482
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 482
 Met Glu Pro Tyr Arg Gly Asn Lys Lys Gln Val Gln Glu Lys Gly Val

5 10 15
 Pro Cys Leu Trp Gly Ser Ser Pro Cys Leu Arg Cys His Met Ala Leu
 20 25 30
 Arg Ala Ser Trp Leu Pro Gly Gly Gly Pro Gln Ala Ile Leu Gly Arg
 35 40 45
 Thr Leu Cys Ser Ser Ala Glu Ser Ser Gln Asp Cys His Pro Gly Gly
 50 55 60
 Pro Ser Ile Ala Leu Ala Lys Pro Cys Arg Gly Val Trp Leu Leu Phe
 65 70 75 80
 Glu Pro Ala Trp Pro Pro Trp His Ala Arg Ala Pro Gly Ala Gly Thr
 85 90 95
 Leu Leu Arg Val Cys Leu Ser Cys Leu Gly Cys His Leu Cys Gly Gly
 100 105 110
 Ala Ser Gly Gly Gly Gly Pro Ala Thr Asn Leu Thr Gln Ser Arg Lys
 115 120 125
 Trp Met Ala Met Phe Pro Gln Pro Glu Trp Leu Pro Pro Asp Gly
 130 135 140
 <210> 483
 <211> 143
 <212> PRT
 <213> Homo sapiens
 <400> 483
 Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val
 5 10 15
 Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala
 20 25 30
 Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp
 35 40 45
 Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu
 50 55 60
 Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp
 65 70 75 80
 Lys Leu Thr Arg Ser Ser Val Ser Val Ala Gly Ala Tyr Ala Cys Arg
 85 90 95
 Ala Gly Pro Gly Trp Leu Lys Glu Gln Pro Ala Thr Ser Ala Arg Val
 100 105 110

Arg Leu Val Gln Ala Glu His Pro Pro Pro His Pro Leu Glu Glu Val
 115 120 125

Gly Met Ala Arg Phe Pro Gln Pro Glu Cys Leu Pro Pro Tyr Cys
 130 135 140

<210> 484
 <211> 30
 <212> PRT
 <213> Homo Sapien

<400> 484
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
 1 5 10 15
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile
 20 25 30

<210> 485
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 485
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31

<210> 486
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 486
 gcgaattctc acgctgagta tttggcc

27

<210> 487
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 487
 cccgaattct tagctgccca tccgaacgcc ttcac

36

<210> 488
 <211> 33
 <212> DNA
 <213> Artificial Sequence

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<220>

<223> Made in a lab

<400> 488

gggaagcttc ttccccggct gcaccagctg tgc

33

<210> 489

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 489

Met	Asp	Arg	Leu	Val	Gln	Arg	Phe	Gly	Thr	Arg	Ala	Val	Tyr	Leu	Ala
1				5					10					15	

Ser Val Ala

<210> 490

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 490

Tyr	Leu	Ala	Ser	Val	Ala	Ala	Phe	Pro	Val	Ala	Ala	Gly	Ala	Thr	Cys
1				5					10					15	

Leu	Ser	His	Ser												
			20												

<210> 491

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 491

Thr	Cys	Leu	Ser	His	Ser	Val	Ala	Val	Val	Thr	Ala	Ser	Ala	Ala	Leu
1				5					10					15	

Thr	Gly	Phe	Thr												
			20												

<210> 492

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 492

Ala	Leu	Thr	Gly	Phe	Thr	Phe	Ser	Ala	Leu	Gln	Ile	Leu	Pro	Tyr	Thr
1				5					10					15	
Leu	Ala	Ser	Leu												
			20												

<210> 493

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 493

Tyr	Thr	Leu	Ala	Ser	Leu	Tyr	His	Arg	Glu	Lys	Gln	Val	Phe	Leu	Pro
1				5					10					15	
Lys	Tyr	Arg	Gly												
			20												

<210> 494

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 494

Leu	Pro	Lys	Tyr	Arg	Gly	Asp	Thr	Gly	Gly	Ala	Ser	Ser	Glu	Asp	Ser
1				5					10					15	
Leu	Met	Ile	Ser												
			20												

<210> 495

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 495

Asp	Ser	Leu	Met	Thr	Ser	Phe	Leu	Pro	Gly	Pro	Lys	Pro	Gly	Ala	Pro
1				5					10					15	
Phe	Pro	Asn	Gly												
			20												

<210> 496

<211> 21

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 496
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 1 5 10 15
 Pro Pro Pro Pro Ala
 20

<210> 497
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 497
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 1 5 10 15
 Ser Val Arg Val
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<210> 498
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 498
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 Val Pro Gly Arg
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<210> 499
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 499
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 Ser Ala Phe Leu
 20

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<210> 500
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 500
 Leu Asp Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met
 1 5 10 15
 Gly Ser Ile Val
 20

<210> 501
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 501
 Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met
 1 5 10 15
 Val Ser Ala Ala
 20

<210> 502
 <211> 414
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(414)
 <223> n=A,T,C or G

<400> 502
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 tcagtcggtg gaggagtcog ggggtcgcct ggtcacgcct gggacacctt tgacantcac 120
 ctgtagagtt tttggaatng aocctcagtag caatgcaatg agctgggtcc gccaggctcc 180
 agggaagggg ctggaatgga tcggagccat tgataattgt ccacantacg cgacctgggc 240
 gaaaggccga ttnatnatntt ccaaaacctn gaccacggtg gatttgaaaa tgaccagtcc 300
 gacaaccgag gacacggcca cctatttttg tggcagaatg aatactggta atagtggttg 360
 gaagaatatt tggggcccag gcacctggt caccgtntcc tcagggcaac ctaa 414

<210> 503
 <211> 379
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature

<222> (1)...(379)
 <223> n=A,T,C or G

<400> 503
 atnogatggt gcttggtcaa aggtgtccag tgtcagtcgg tggaggagtc cgggggtcgc 60
 ctgggtcacgc ctgggacacc cctgacactc acctgcaccg tntctggatt ngacatcagt 120
 agctatggag tgagctgggt ccgccaggct ccagggaagg ggctgggnata catcgatca 180
 ttagtagtag tggtagatct tacgcgagct gggcgaaagg ccgattcacc atttccaaaa 240
 cctngaccac ggtggatttg aaaatcacca gtttgacaac cgaggacacg gccacctatt 300
 tntgtgccag aggggggttt aattataaag acatttgggg cccaggcacc ctgggtcaccg 360
 tntccttagg gcaacctaa 379

<210> 504
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 504
 Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp Ser Pro Tyr Phe Lys Glu
 1 5 10 15
 Asn Ser Ala

<210> 505
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 505
 Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn Asp Asn Val Thr
 1 5 10 15
 Asn Thr Ala Asn
 20

<210> 506
 <211> 407
 <212> DNA
 <213> Homo Sapien

<400> 506
 atggagacag gcctgcgctg gcttctcctg gtcgctgcgc tcaaaggtgt ccagtgtcag 60
 tcgctggagg agtccggggg tcgctgggtc acgcctggga caccctgac actcacctgc 120
 accgtctctg gattctccct cagtagcaat gcaatgatct gggtcgccca ggctccaggg 180
 aaggggctgg aatacatcgg atacattagt tatgggtgga gcgcatacta cgcgagctgg 240
 gtgaaaggcc gattcaccat ctccaaaacc tcgaccacgg tggatctgag aatgaccagt 300
 ctgacaaccg aggacacggc cacctatttc tgtgccagaa atagtgatt tagtggtatg 360
 ttgtggggcc caggcaccct ggtcacgctc tcctcagggc aacctaa 407

<210> 507
 <211> 422
 <212> DNA
 <213> Homo Sapien

<400> 507
 atggagacag gcctgcgctg gcttctcctg gtcgctgtgc tcaaaggtgt ccagtgtcag 60
 tcggtggagg agtccggggg tcgcctgggc acgcctggga caccctgac actcacctgt 120
 acagtctctg gattctccct cagcaactac gacctgaact gggtcgccca ggctccaggg 180
 aaggggctgg aatggatcgg gatcattaat tatgttggta ggacggacta cgcgaactgg 240
 gcaaaaggcc ggttcaccat ctccaaaacc tcgaccaccg tggatctcaa gatcgccagt 300
 ccgacaaccg aggacacggc cacctatttc tgtgccagag ggtggaagtg cgatgagtct 360
 ggtccgtgct tgcgcctctg gggcccaggc accctggtea ccgtctcctt agggcaacct 420
 aa 422

<210> 508
 <211> 411
 <212> DNA
 <213> Homo Sapien

<220>
 <221> misc_feature
 <222> (1)...(411)
 <223> n=A,T,C or G

<400> 508
 atggagacag gcctgcgctg cttctcctgg tcgctgtgct caaaggtgtc cagtgtcagt 60
 cgtgaggagg gtcggggggg cgcttggtca cgctgggac acccctgaca ctcacctgca 120
 cagtctctgg aatcgacctc agtagctact gcatgagctg ggtccgccag gctccagggg 180
 aggggctgga atggatcgga atcattggta ctcttggtga cacatactac gcgaggtggg 240
 cgaaaggccg attcaccatc tccaaaacct cgaccacggt gcatntgaaa atcnccagtc 300
 cgacaaccga ggacacggcc acctatttct gtgccagaga tcttcgggat ggtagtagta 360
 ctggttatta taaaatctgg ggcccaggca ccctggtcac cgtctccttg g 411

<210> 509
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 509
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 1 5 10 15

<210> 510
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 510
 Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile
 1 5 10 15

<210> 511
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 511
 Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln Lys
 1 5 10 15

<210> 512
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 512
 Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu
 1 5 10 15

<210> 513
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 513
 Ala Pro Cys Gly Gln Val Gly Val Pro Asx Val Tyr Thr Asn Leu
 1 5 10 15

<210> 514
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 514
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 1 5 10 15

<210> 515
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 515
 Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg
 1 5 10 15

<210> 516
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 516
 Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln
 1 5 10 15

<210> 517
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 517
 Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met
 1 5 10 15

<210> 518
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 518
 Arg Ala Glu Pro Gly Thr Glu Ala Arg Arg His Tyr Asp Glu Gly
 1 5 10 15

<210> 519
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Made in a lab

<400> 519

Arg	Ala	Glu	Pro	Gly	Thr	Glu	Ala	Arg	Arg	Asn	Tyr	Asp	Glu	Gly	Cys
1				5				10						15	
Gly															

<210> 520

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 520

Val	Gly	Glu	Gly	Leu	Tyr	Gln	Gly	Val	Pro	Arg	Ala	Glu	Pro	Gly	Thr
1				5				10						15	
Glu	Ala	Arg	Arg	His	Tyr	Asp	Glu	Gly							
			20				25								

<210> 521

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 521

Ala	Pro	Phe	Pro	Asn	Gly	His	Val	Gly	Ala	Gly	Gly	Ser	Gly	Leu	Leu
1				5				10						15	
Pro	Pro	Pro	Pro	Ala											
				20											

<210> 522

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 522

Leu	Leu	Val	Val	Pro	Ala	Ile	Lys	Lys	Asp	Tyr	Gly	Ser	Gln	Glu	Asp
1				5				10						15	
Phe	Thr	Gln	Val												
			20												

<210> 523

<211> 254

<212> PRT

<213> Artificial Sequence

<220>
 <223> Made in a lab

<220>
 <221> VARIANT
 <222> (1)...(254)
 <223> Xaa = any amino acid

<400> 523

Met	Ala	Thr	Ala	Gly	Asn	Pro	Trp	Gly	Trp	Phe	Leu	Gly	Tyr	Leu	Ile
1				5				10					15		
Leu	Gly	Val	Ala	Gly	Ser	Leu	Val	Ser	Gly	Ser	Cys	Ser	Gln	Ile	Ile
			20					25					30		
Asn	Gly	Glu	Asp	Cys	Ser	Pro	His	Ser	Gln	Pro	Trp	Gln	Ala	Ala	Leu
		35					40					45			
Val	Met	Glu	Asn	Glu	Leu	Phe	Cys	Ser	Gly	Val	Leu	Val	His	Pro	Gln
	50					55					60				
Trp	Val	Leu	Ser	Ala	Thr	His	Cys	Phe	Gln	Asn	Ser	Tyr	Thr	Ile	Gly
65					70				75					80	
Leu	Gly	Leu	His	Ser	Leu	Glu	Ala	Asp	Gln	Glu	Pro	Gly	Ser	Gln	Met
			85					90						95	
Val	Glu	Ala	Ser	Leu	Ser	Val	Arg	His	Pro	Glu	Tyr	Asn	Arg	Pro	Leu
		100					105						110		
Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile	Lys	Leu	Asp	Glu	Ser	Val	Ser	Glu
	115						120					125			
Ser	Asp	Thr	Ile	Arg	Ser	Ile	Ser	Ile	Ala	Ser	Gln	Cys	Pro	Thr	Ala
	130					135					140				
Gly	Asn	Ser	Cys	Leu	Val	Ser	Gly	Trp	Gly	Leu	Leu	Ala	Asn	Gly	Arg
145				150					155						160
Met	Pro	Thr	Val	Leu	Gln	Cys	Val	Asn	Val	Ser	Val	Val	Ser	Glu	Glu
			165					170						175	
Val	Cys	Ser	Lys	Leu	Tyr	Asp	Pro	Leu	Tyr	His	Pro	Ser	Met	Phe	Cys
		180						185					190		
Ala	Gly	Gly	Gly	Gln	Xaa	Gln	Xaa	Asp	Ser	Cys	Asn	Gly	Asp	Ser	Gly
	195					200						205			
Gly	Pro	Leu	Ile	Cys	Asn	Gly	Tyr	Leu	Gln	Gly	Leu	Val	Ser	Phe	Gly
	210				215						220				
Lys	Ala	Pro	Cys	Gly	Gln	Val	Gly	Val	Pro	Gly	Val	Tyr	Thr	Asn	Leu
225				230						235					240
Cys	Lys	Phe	Thr	Glu	Trp	Ile	Glu	Lys	Thr	Val	Gln	Ala	Ser		
			245					250							

<210> 524
 <211> 765
 <212> DNA
 <213> Homo sapien

<400> 524

atggccacag	caggaaatcc	ctggggctgg	ttcctgggggt	acctcatcct	tggtgtcgca	60
ggatcgctcg	tctctggtag	ctgcagccaa	atcataaacg	gcgaggactg	cagcccgac	120
tcgcagccct	ggcaggcggc	actgggtcatg	gaaaacgaat	tggtctgctc	gggcgtcctg	180
gtgcatccgc	agtgggtgct	gtcagccgca	cactgtttcc	agaactccta	caccatcggg	240
ctgggcctgc	acagtcttga	ggccgaccaa	gagccaggga	gccagatggt	ggaggccagc	300

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ctctccgtac  ggcacccaga  gtacaacaga  cccttgctcg  ctaacgacct  catgtcatc  360
aagttggacg  aatccgtgtc  cgagtcgtac  accatccgga  gcacagcat  tgcttcgcag  420
tgccctaccg  cggggaactc  ttgcctcggt  tctggctggg  gtctgctggc  gaacggcaga  480
atgcctaccg  tgctgcagtg  cgtgaacgtg  tcggtggtgt  ctgaggaggt  ctgcagtaag  540
ctctatgacc  cgctgtacca  ccccagcatg  ttctgcgcgc  gcggagggca  agaccagaag  600
gactcctgca  acggtgactc  tggggggccc  ctgatctgca  acgggtactt  gcagggcctt  660
gtgtctttcg  gaaaagcccc  gtgtggccaa  gttggcgtgc  caggtgtcta  caccaacctc  720
tgcaaattca  ctgagtggat  agagaaaacc  gtccaggcca  gttaa  765

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<210> 525

<211> 254

<212> PRT

<213> Homo sapien

<400> 525

```

Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile
  1          5          10          15
Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile
          20          25          30
Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu
          35          40          45
Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
          50          55          60
Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
          65          70          75          80
Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
          85          90          95
Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
          100          105          110
Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
          115          120          125
Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
          130          135          140
Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg
          145          150          155          160
Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
          165          170          175
Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
          180          185          190
Ala Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly
          195          200          205
Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
          210          215          220
Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
          225          230          235          240
Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
          245          250

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<210> 526

<211> 963

<212> DNA

<213> Homo sapiens

<400> 526

```

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aactgcatcg tggctttcat cgtaaggacg gaacgcagcc tgcacgctcc gatgtacctc 180
tttctctgca tgcttgacgc cattgacctg gccttatcca catccaccat gcctaagatc 240
cttgcccttt tctggtttga ttcccgagag attagctttg aggcctgtct taccagatg 300
ttctttattc atgccctctc agccattgaa tccaccatcc tgctggccat ggcctttgac 360
cgttatgtgg ccactctgcca cccactgcgc catgctgcag tgctcaacaa tacagtaaca 420
gccagattg gcacgtggc tgtggtcgc ggatccctct tttttttccc actgcctctg 480
ctgatcaagc ggtggcctt ctgccactcc aatgtcctct cgcactccta ttgtgtccac 540
caggatgtaa tgaagttggc ctatgcagac actttgccc aatgtgtata tggctctact 600
gccattctgc tggcatggg cgtggacgta atgttcctct ccttgtccta ttttctgata 660
atacgaacgg ttctgcaact gccttccaag tcagagcggg ccaaggcctt tggaacctgt 720
gtgtcacaca ttgtgtggg actgccttc tatgtgccac ttattggcct ctcatgtgta 780
caccgctttg gaaacagcct tcatccatt gtgcgtgttg tcatgggtga catctacctg 840
ctgctgcctc ctgtcatcaa tcccatcatc tatggtgcca aaaccaaaca gatcagaaca 900
cgggtgctgg ctatgttcaa gatcagctgt gacaaggact tgcaggctgt gggaggcaag 960
tga

```

<210> 527

<211> 320

<212> PRT

<213> Homo sapiens

<400> 527

```

Met Ser Ser Cys Asn Phe Thr His Ala Thr Phe Val Leu Ile Gly Ile
          5              10              15

```

```

Pro Gly Leu Glu Lys Ala His Phe Trp Val Gly Phe Pro Leu Leu Ser
          20              25              30

```

```

Met Tyr Val Val Ala Met Phe Gly Asn Cys Ile Val Val Phe Ile Val
          35              40              45

```

```

Arg Thr Glu Arg Ser Leu His Ala Pro Met Tyr Leu Phe Leu Cys Met
          50              55              60

```

```

Leu Ala Ala Ile Asp Leu Ala Leu Ser Thr Ser Thr Met Pro Lys Ile
          65              70              75              80

```

```

Leu Ala Leu Phe Trp Phe Asp Ser Arg Glu Ile Ser Phe Glu Ala Cys
          85              90              95

```

```

Leu Thr Gln Met Phe Phe Ile His Ala Leu Ser Ala Ile Glu Ser Thr
          100             105             110

```

```

Ile Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala Ile Cys His Pro
          115             120             125

```

```

Leu Arg His Ala Ala Val Leu Asn Asn Thr Val Thr Ala Gln Ile Gly
          130             135             140

```

```

Ile Val Ala Val Val Arg Gly Ser Leu Phe Phe Phe Pro Leu Pro Leu
          145             150             155             160

```

Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys
305 310 315 320

20

20

ggcagcagaa ttaaaaccct cagcaaaaaca ggcatagaag ggacatacct taaagtaata 60
aaaaccacct atgacaagcc cacagccaac ataatactaa atggggaaaa gttagaagca 120

```

tttctctga gaactgcaac aataaatata aggatgctgg attttgtcaa atgccttttc 180
tgtgtctgtt gagatgctta tgtgactttg cttttaattc tgtttatgtg attatcacat 240
ttattgactt gcctgtgtta gaccggaaga gctgggggtg ttctcaggag ccaccgtgtg 300
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aacgtggctg cttggggaga ctacgatgac agcgcttca tggatcccag gtaccacgtc 960
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tgccaggaag atgaatgtgc gtaatgtttg ctggaacatg gactgatcc aaatattcca 1260
gatgagtatg gaaataccac tctacactat gctgtctaca atgaagataa attaatggcc 1320
aaagcactgc tcttatacgg tgctgatatc gaatcaaaaa aacagcatgg cctcacacca 1380
ctgctacttg gtatacatga gcaaaaaacag caagtgggtga aatttttaat caagaaaaaa 1440
gogaatttaa atgcgctgga tagatatgga agaactgctc tcatacttgc tgtatgttgt 1500
ggatcagcaa gtatagtcag cctctacttt gagcaaaatg ttgatgtatc ttctcaagat 1560
ctggaaagac ggccagagag tatgtgtttt ctagtcatca tcatgtaatt tgccagttac 1620
tttctgacta caaagaaaaa cagatgttaa aaatctcttc tgaaaacagc aatccagaac 1680
aagacttaaa gctgacatca gaggaagagt cacaagggtc taaaggaagt gaaaacagcc 1740
agccagagct agaagattta tggctattga agaagaatga agaacacgga agtactcatg 1800
tgggattccc agaaaacctg actaacgggtg ccgctgctgg caatgggtgat ga 1852

```

<210> 531
 <211> 879
 <212> DNA
 <213> Homo sapiens

```

<400> 531
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tgcaagtggg gctgccactg cttccctctg tgcaggggga gcggcaagag caacgtgggtc 180
gcttggggag actacgatga cagcgcttcc atggatccca ggtaccacgt ccatggagaa 240
gatctggaca agctccacag agctgcctgg tggggtaaag tcccagaaa ggatctcatc 300
gtcatgctca gggacacgga tgtgaacaag agggacaagc aaaagaggac tgctctacat 360
ctggcctctg ccaatgggaa ttccagaagta gtaaaactcg tgctggacag acgatgtcaa 420
cttaatgtcc ttgacaacaa aaagaggaca gctctgacaa aggccgtaca atgccaggaa 480
gatgaatgtg cgtaatgttt gctggaacat ggcactgatc caaatattcc agatgagtat 540
ggaaatacca ctctacacta tgctgtctac aatgaagata aattaatggc caaagcactg 600
ctcttatacg gtgctgatat cgaatcaaaa aacaagcatg gcctcacacc actgctactt 660
ggtatacatg agcaaaaaa gcaagtgggt aaatttttaa tcaagaaaaa agcgaattta 720
aatgcgctgg atagatatgg aagaactgct ctcatacttg ctgtatgttg tggatcagca 780
agtatagtca gccctctact tgagcaaaat gttgatgtat cttctcaaga tctggaaaag 840
cggccagaga gtatgtgttt tctagtcatc atcatgtaa 879

```

<210> 532
 <211> 292

<213> Homo sapiens

Met	His	Leu	Ser	Phe	Pro	Ala	Phe	Leu	Pro	Pro	Trp	Met	Asp	Arg	Gly	
				5					10					15		
Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp	His	Asn	Asp	Ser	Ser	
			20					25					30			
Val	Lys	Thr	Leu	Gly	Ser	Lys	Arg	Cys	Lys	Trp	Cys	Cys	His	Cys	Phe	
		35					40					45				
Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val	Val	Ala	Trp	Gly	Asp	
	50					55				60						
Tyr	Asp	Asp	Ser	Ala	Phe	Met	Asp	Pro	Arg	Tyr	His	Val	His	Gly	Glu	
65					70					75					80	
Asp	Leu	Asp	Lys	Leu	His	Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	
				85					90					95		
Lys	Asp	Leu	Ile	Val	Met	Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Arg	Asp	
			100					105					110			
Lys	Gln	Lys	Arg	Thr	Ala	Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	
		115					120					125				
Glu	Val	Val	Lys	Leu	Val	Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	
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Pro	Asp	Glu	Tyr	Gly	Asn	Thr	Thr	Leu	His	Tyr	Ala	Val	Tyr	Asn	Glu	
			180					185					190			
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Gln	Lys	Gln	Gln	Val	Val	Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	
225					230					235					240	
Asn	Ala	Leu	Asp	Arg	Tyr	Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	
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Cys	Gly	Ser	Ala	Ser	Ile	Val	Ser	Pro	Leu	Leu	Glu	Gln	Asn	Val	Asp	
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 35 40 45
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 115 120 125
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 180 185 190
 Ser Trp His Thr Leu Ala Glu Val Thr Gly Cys Ser Leu Ser Pro Leu
 195 200 205
 Ser Leu Ala Gln His Ala Gln Ala Ser Val Leu Leu Leu Cys Tyr Lys
 210 215 220
 Trp Ser His Ile Gly Glu Thr Ser Ser His Leu Arg Ser Lys Val Tyr
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<212> DNA

<213> Homo sapiens

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<211> 1228

<212> PRT

<213> Homo sapiens

<400> 537

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Cys Ile Cys	Gln Ile Leu His Glu Lys	Ile Thr Ile Leu Val Thr His			
	580		585	590	
Gln Leu Gln	Tyr Leu Lys Ala Ala Ser	Gln Ile Leu Ile Leu Lys Asp			
	595		600	605	
Gly Lys Met	Val Gln Lys Gly Thr Tyr	Thr Glu Phe Leu Lys Ser Gly			

610	615	620
Ile Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn Glu Glu Ser Glu Gln 625 630 635 640		
Pro Pro Val Pro Gly Thr Pro Thr Leu Arg Asn Arg Thr Phe Ser Glu 645 650 655		
Ser Ser Val Trp Ser Gln Gln Ser Ser Arg Pro Ser Leu Lys Asp Gly 660 665 670		
Ala Leu Glu Ser Gln Asp Thr Glu Asn Val Pro Val Thr Leu Ser Glu 675 680 685		
Glu Asn Arg Ser Glu Gly Lys Val Gly Phe Gln Ala Tyr Lys Asn Tyr 690 695 700		
Phe Arg Ala Gly Ala His Trp Ile Val Phe Ile Phe Leu Ile Leu Leu 705 710 715 720		
Asn Thr Ala Ala Gln Val Ala Tyr Val Leu Gln Asp Trp Trp Leu Ser 725 730 735		
Tyr Trp Ala Asn Lys Gln Ser Met Leu Asn Val Thr Val Asn Gly Gly 740 745 750		
Gly Asn Val Thr Glu Lys Leu Asp Leu Asn Trp Tyr Leu Gly Ile Tyr 755 760 765		
Ser Gly Leu Thr Val Ala Thr Val Leu Phe Gly Ile Ala Arg Ser Leu 770 775 780		
Leu Val Phe Tyr Val Leu Val Asn Ser Ser Gln Thr Leu His Asn Lys 785 790 795 800		
Met Phe Glu Ser Ile Leu Lys Ala Pro Val Leu Phe Phe Asp Arg Asn 805 810 815		
Pro Ile Gly Arg Ile Leu Asn Arg Phe Ser Lys Asp Ile Gly His Leu 820 825 830		
Asp Asp Leu Leu Pro Leu Thr Phe Leu Asp Phe Ile Gln Thr Leu Leu 835 840 845		
Gln Val Val Gly Val Val Ser Val Ala Val Ala Val Ile Pro Trp Ile 850 855 860		
Ala Ile Pro Leu Val Pro Leu Gly Ile Ile Phe Ile Phe Leu Arg Arg 865 870 875 880		
Tyr Phe Leu Glu Thr Ser Arg Asp Val Lys Arg Leu Glu Ser Thr Thr 885 890 895		
Arg Ser Pro Val Phe Ser His Leu Ser Ser Ser Leu Gln Gly Leu Trp		

900	905	910
Thr Ile Arg Ala Tyr Lys Ala	Glu Glu Arg Cys Gln Glu Leu Phe Asp	
915	920	925
Ala His Gln Asp Leu His Ser Glu Ala Trp Phe Leu Phe Leu Thr Thr		
930	935	940
Ser Arg Trp Phe Ala Val Arg Leu Asp Ala Ile Cys Ala Met Phe Val		
945	950	955 960
Ile Ile Val Ala Phe Gly Ser Leu Ile Leu Ala Lys Thr Leu Asp Ala		
965	970	975
Gly Gln Val Gly Leu Ala Leu Ser Tyr Ala Leu Thr Leu Met Gly Met		
980	985	990
Phe Gln Trp Cys Val Arg Gln Ser Ala Glu Val Glu Asn Met Met Ile		
995	1000	1005
Ser Val Glu Arg Val Ile Glu Tyr Thr Asp Leu Glu Lys Glu Ala Pro		
1010	1015	1020
Trp Glu Tyr Gln Lys Arg Pro Pro Pro Ala Trp Pro His Glu Gly Val		
1025	1030	1035 1040
Ile Ile Phe Asp Asn Val Asn Phe Met Tyr Ser Pro Gly Gly Pro Leu		
1045	1050	1055
Val Leu Lys His Leu Thr Ala Leu Ile Lys Ser Gln Glu Lys Val Gly		
1060	1065	1070
Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser Leu Ile Ser Ala Leu		
1075	1080	1085
Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp Ile Asp Lys Ile Leu		
1090	1095	1100
Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys Lys Met Ser Ile Ile		
1105	1110	1115 1120
Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met Arg Lys Asn Leu Asp		
1125	1130	1135
Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp Asn Ala Leu Gln Glu		
1140	1145	1150
Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro Gly Lys Met Asp Thr		
1155	1160	1165
Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val Gly Gln Arg Gln Leu		
1170	1175	1180
Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn Gln Ile Leu Ile Ile		

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1185              1190              1195              1200
Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr Asp Glu Leu Ile Gln
              1205              1210              1215

Lys Lys Ser Gly Arg Asn Leu Pro Thr Ala Pro Cys
              1220              1225

<210> 538
<211> 1261
<212> PRT
<213> Homo sapiens

<400> 538
Met Tyr Ser Val Leu Pro Glu Asp Arg Ser Gln His Leu Gly Glu Glu
              5              10              15

Leu Gln Gly Phe Trp Asp Lys Glu Val Leu Arg Ala Glu Asn Asp Ala
              20              25              30

Gln Lys Pro Ser Leu Thr Arg Ala Ile Ile Lys Cys Tyr Trp Lys Ser
              35              40              45

Tyr Leu Val Leu Gly Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val
              50              55              60

Ile Gln Pro Ile Phe Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr
              65              70              75              80

Asp Pro Met Asp Ser Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr
              85              90              95

Val Leu Thr Phe Cys Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr
              100              105              110

Phe Tyr His Val Gln Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys
              115              120              125

His Met Ile Tyr Arg Lys Ala Leu Arg Leu Ser Asn Met Ala Met Gly
              130              135              140

Lys Thr Thr Thr Gly Gln Ile Val Asn Leu Leu Ser Asn Asp Val Asn
              145              150              155              160

Lys Phe Asp Gln Val Thr Val Phe Leu His Phe Leu Trp Ala Gly Pro
              165              170              175

Leu Gln Ala Ile Ala Val Thr Ala Leu Leu Trp Met Glu Ile Gly Ile
              180              185              190

Ser Cys Leu Ala Gly Met Ala Val Leu Ile Ile Leu Leu Pro Leu Gln
              195              200              205

Ser Cys Phe Gly Lys Leu Phe Ser Ser Leu Arg Ser Lys Thr Ala Thr

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210 215 220
 Phe Thr Asp Ala Arg Ile Arg Thr Met Asn Glu Val Ile Thr Gly Ile
 225 230 235 240
 Arg Ile Ile Lys Met Tyr Ala Trp Glu Lys Ser Phe Ser Asn Leu Ile
 245 250 255
 Thr Asn Leu Arg Lys Lys Glu Ile Ser Lys Ile Leu Arg Ser Ser Cys
 260 265 270
 Leu Arg Gly Met Asn Leu Ala Ser Phe Phe Ser Ala Ser Lys Ile Ile
 275 280 285
 Val Phe Val Thr Phe Thr Thr Tyr Val Leu Leu Gly Ser Val Ile Thr
 290 295 300
 Ala Ser Arg Val Phe Val Ala Val Thr Leu Tyr Gly Ala Val Arg Leu
 305 310 315 320
 Thr Val Thr Leu Phe Phe Pro Ser Ala Ile Glu Arg Val Ser Glu Ala
 325 330 335
 Ile Val Ser Ile Arg Arg Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile
 340 345 350
 Ser Gln Arg Asn Arg Gln Leu Pro Ser Asp Gly Lys Lys Met Val His
 355 360 365
 Val Gln Asp Phe Thr Ala Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr
 370 375 380
 Leu Gln Gly Leu Ser Phe Thr Val Arg Pro Gly Glu Leu Leu Ala Val
 385 390 395 400
 Val Gly Pro Val Gly Ala Gly Lys Ser Ser Leu Leu Ser Ala Val Leu
 405 410 415
 Gly Glu Leu Ala Pro Ser His Gly Leu Val Ser Val His Gly Arg Ile
 420 425 430
 Ala Tyr Val Ser Gln Gln Pro Trp Val Phe Ser Gly Thr Leu Arg Ser
 435 440 445
 Asn Ile Leu Phe Gly Lys Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val
 450 455 460
 Ile Lys Ala Cys Ala Leu Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly
 465 470 475 480
 Asp Leu Thr Val Ile Gly Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln
 485 490 495
 Lys Ala Arg Val Asn Leu Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile

	500		505		510										
Tyr	Leu	Leu	Asp	Asp	Pro	Leu	Ser	Ala	Val	Asp	Ala	Glu	Val	Ser	Arg
	515						520					525			
His	Leu	Phe	Glu	Leu	Cys	Ile	Cys	Gln	Ile	Leu	His	Glu	Lys	Ile	Thr
	530					535					540				
Ile	Leu	Val	Thr	His	Gln	Leu	Gln	Tyr	Leu	Lys	Ala	Ala	Ser	Gln	Ile
545					550					555					560
Leu	Ile	Leu	Lys	Asp	Gly	Lys	Met	Val	Gln	Lys	Gly	Thr	Tyr	Thr	Glu
			565						570						575
Phe	Leu	Lys	Ser	Gly	Ile	Asp	Phe	Gly	Ser	Leu	Leu	Lys	Lys	Asp	Asn
			580					585						590	
Glu	Glu	Ser	Glu	Gln	Pro	Pro	Val	Pro	Gly	Thr	Pro	Thr	Leu	Arg	Asn
		595					600							605	
Arg	Thr	Phe	Ser	Glu	Ser	Ser	Val	Trp	Ser	Gln	Gln	Ser	Ser	Arg	Pro
	610						615							620	
Ser	Leu	Lys	Asp	Gly	Ala	Leu	Glu	Ser	Gln	Asp	Thr	Glu	Asn	Val	Pro
625					630					635					640
Val	Thr	Leu	Ser	Glu	Glu	Asn	Arg	Ser	Glu	Gly	Lys	Val	Gly	Phe	Gln
				645					650					655	
Ala	Tyr	Lys	Asn	Tyr	Phe	Arg	Ala	Gly	Ala	His	Trp	Ile	Val	Phe	Ile
			660					665						670	
Phe	Leu	Ile	Leu	Leu	Asn	Thr	Ala	Ala	Gln	Val	Ala	Tyr	Val	Leu	Gln
		675					680					685			
Asp	Trp	Trp	Leu	Ser	Tyr	Trp	Ala	Asn	Lys	Gln	Ser	Met	Leu	Asn	Val
	690					695					700				
Thr	Val	Asn	Gly	Gly	Gly	Asn	Val	Thr	Glu	Lys	Leu	Asp	Leu	Asn	Trp
705					710					715					720
Tyr	Leu	Gly	Ile	Tyr	Ser	Gly	Leu	Thr	Val	Ala	Thr	Val	Leu	Phe	Gly
				725					730					735	
Ile	Ala	Arg	Ser	Leu	Leu	Val	Phe	Tyr	Val	Leu	Val	Asn	Ser	Ser	Gln
			740					745					750		
Thr	Leu	His	Asn	Lys	Met	Phe	Glu	Ser	Ile	Leu	Lys	Ala	Pro	Val	Leu
		755					760					765			
Phe	Phe	Asp	Arg	Asn	Pro	Ile	Gly	Arg	Ile	Leu	Asn	Arg	Phe	Ser	Lys
	770					775					780				
Asp	Ile	Gly	His	Leu	Asp	Asp	Leu	Leu	Pro	Leu	Thr	Phe	Leu	Asp	Phe

785		790		795		800
Ile Gln Thr Leu	Leu Gln Val Val Gly	Val Val Ser Val Ala	Val Ala			
	805		810		815	
Val Ile Pro Trp	Ile Ala Ile Pro Leu	Val Pro Leu Gly	Ile Ile Phe			
	820	825	830			
Ile Phe Leu Arg	Arg Tyr Phe Leu Glu	Thr Ser Arg Asp	Val Lys Arg			
	835	840	845			
Leu Glu Ser Thr	Thr Arg Ser Pro Val	Phe Ser His Leu	Ser Ser Ser			
	850	855	860			
Leu Gln Gly Leu	Trp Thr Ile Arg Ala	Tyr Lys Ala Glu	Glu Arg Cys			
865	870	875	880			
Gln Glu Leu Phe	Asp Ala His Gln Asp	Leu His Ser Glu	Ala Trp Phe			
	885	890	895			
Leu Phe Leu Thr	Thr Ser Arg Trp Phe	Ala Val Arg Leu	Asp Ala Ile			
	900	905	910			
Cys Ala Met Phe	Val Ile Ile Val Ala	Phe Gly Ser Leu	Ile Leu Ala			
	915	920	925			
Lys Thr Leu Asp	Ala Gly Gln Val Gly	Leu Ala Leu Ser	Tyr Ala Leu			
	930	935	940			
Thr Leu Met Gly	Met Phe Gln Trp Cys	Val Arg Gln Ser	Ala Glu Val			
945	950	955	960			
Glu Asn Met Met	Ile Ser Val Glu Arg	Val Ile Glu Tyr	Thr Asp Leu			
	965	970	975			
Glu Lys Glu Ala	Pro Trp Glu Tyr Gln	Lys Arg Pro Pro	Pro Ala Trp			
	980	985	990			
Pro His Glu Gly	Val Ile Ile Phe Asp	Asn Val Asn Phe	Met Tyr Ser			
	995	1000	1005			
Pro Gly Gly Pro	Leu Val Leu Lys His	Leu Thr Ala Leu	Ile Lys Ser			
	1010	1015	1020			
Gln Glu Lys Val	Gly Ile Val Gly Arg	Thr Gly Ala Gly	Lys Ser Ser			
1025	1030	1035	1040			
Leu Ile Ser Ala	Leu Phe Arg Leu Ser	Glu Pro Glu Gly	Lys Ile Trp			
	1045	1050	1055			
Ile Asp Lys Ile	Leu Thr Thr Glu Ile	Gly Leu His Asp	Leu Arg Lys			
	1060	1065	1070			
Lys Met Ser Ile	Ile Pro Gln Glu Pro	Val Leu Phe Thr	Gly Thr Met			

1075	1080	1085
Arg Lys Asn Leu Asp Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp 1090	1095	1100
Asn Ala Leu Gln Glu Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro 1105	1110	1115 1120
Gly Lys Met Asp Thr Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val 1125	1130	1135
Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn 1140	1145	1150
Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr 1155	1160	1165
Asp Glu Leu Ile Gln Lys Lys Ile Arg Glu Lys Phe Ala His Cys Thr 1170	1175	1180
Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys 1185	1190	1195 1200
Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr 1205	1210	1215
Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln 1220	1225	1230
Leu Gly Lys Ala Glu Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg 1235	1240	1245
Trp Gly Phe Thr Met Leu Ala Arg Leu Val Ser Asn Ser 1250	1255	1260

<210> 539

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 539

Cys	Leu	Ser	His	Ser	Val	Ala	Val	Val	Thr
1				5					10

<210> 540

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 540

Ala Val Val Thr Ala Ser Ala Ala Leu
1 5

<210> 541

<211> 14

<212> PRT

<213> Homo sapiens

<400> 541

Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu
5 10

<210> 542

<211> 15

<212> PRT

<213> Homo sapiens

<400> 542

Thr Gln Val Val Phe Asp Lys Ser Asp Leu Ala Lys Tyr Ser Ala
5 10 15

<210> 543

<211> 12

<212> PRT

<213> Homo sapiens

<400> 543

Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val
5 10

<210> 544

<211> 18

<212> PRT

<213> Homo sapiens

<400> 544

Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val Glu Glu Lys Phe
5 10 15

Met Thr

<210> 545

<211> 18

<212> PRT

<213> Homo sapiens

<400> 545

Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala
 5 10 15

Ser Val

<210> 546
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 546
 Phe Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly
 5 10 15

Thr Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg Met
 20 25

<210> 547
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 547
 Val Ala Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu
 5 10 15

Ser Ala Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu
 20 25 30

Ala Phe Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys
 35 40 45

Cys Arg Met Pro Arg Thr Leu Arg Arg Leu
 50 55

<210> 548
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 548
 Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu
 5 10 15

Glu Cys

<210> 549
 <211> 18

<212> PRT

<213> Homo sapiens

<400> 549

Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg
 5 10 15

Gln Ala

<210> 550

<211> 14

<212> PRT

<213> Homo sapiens

<400> 550

Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe
 5 10

<210> 551

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 551

Phe Asp Lys Ser Asp Leu Ala Lys Tyr Ser Ala
 5 10

<210> 552

<211> 2577

<212> DNA

<213> Homo sapiens

<400> 552

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tcataccagt	ccaaggacta	ttatgaacca	caccacacag	gaggaggtga	gcactaggca	180
agccaaggaa	gcttcacctg	tacttacagc	cacacgccat	ggctcatatt	acagcctgaa	240
ctctgcctcc	actcagatca	gtgataacat	tagaaactca	ttggagcacg	aaccctgttg	300
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atctatcatt	gtctcacttt	gccccagat	aagaccatct	agttgcagaa	aaataagctc	420
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ctacctgaga	ttctgagatt	tctcttcaat	ggcttcctgt	gagctagagt	ttgaaaatat	600
cttaaaatct	tgagctagag	atggaagtag	cttggacgat	tttcattatc	atgtaaatacg	660
ggtcactcaa	ggggccaacc	acagctggga	gccactgctc	aggggaaggt	tcatatggga	720
ctttctactg	cccaagggttc	tatacaggat	ataaaggtgc	ctcacagtat	agatctggta	780
gcaaagaaga	agaaacaaac	actgatctct	ttctgccacc	cctctgaccc	tttggaaactc	840
ctctgaccct	ttagaacaag	cctacctaata	atctgctaga	gaaaagacca	acaacgcct	900

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atgccagggg gccagagcag ggggctgctg ctttggaac aatggctgag catataacca 1080
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aggagtatct aggacatagt cccagaaga cagtacaaga ctttctgata aactggacat 1380
ttcaagrccc aaataactaa tcagaaaaat caaagatgtg atactatttt ttatcccatg 1440
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aaagtcctga gataaagaat cctgcaccca ctggtacttc taacttgtct tgttttttgt 1560
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aacatcttgc ctgtccgtgc agaatcaaac atttacatgc actaaaagac ataagcatct 1980
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ccacatatat ctttcttatg cgcagcaaac tttgaaggat atattctcct acttttcata 2400
tatgacaaca tatttgggtg taaataacgt tccaagggtc acacacctag caagtaagaa 2460
agtttaggaat taaaccagtt attgtgtgaa tctaaagcct aacttttttc tctttatcac 2520
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<210> 553

<211> 58

<212> PRT

<213> Homo sapiens

<400> 553

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Ser Ile Cys Asn Met Thr Cys Ala Ser Val Phe Phe Cys Asp Gln Lys
          5                      10                      15

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Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly
          20                      25                      30

```

```

Val Leu Asn Ser Gln Ala Thr Asp Ser Tyr Gln Ser Thr Asp Tyr Tyr
          35                      40                      45

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```

Glu Pro His His Thr Gly Gly Gly Glu His
          50                      55

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<210> 554

<211> 59

<212> PRT

<213> Homo sapiens

<400> 554

Leu Gln Lys Asn Lys Leu Arg Ala Ser Thr Asp Ser Thr Leu Trp Ile
 5 10 15

Cys Ala Ala Glu Ala Ser Thr Lys Pro Tyr Phe Tyr Thr Cys Leu Val
 20 25 30

Met Leu His Gly Gln Gly Leu Ala Leu Leu Ser Pro Thr Asn Leu Pro
 35 40 45

Glu Ile Leu Arg Phe Leu Phe Asn Gly Phe Leu
 50 55

<210> 555

<211> 71

<212> PRT

<213> Homo sapiens

<400> 555

Leu Gly Arg Phe Ser Leu Ser Cys Lys Ser Gly His Ser Arg Gly Gln
 5 10 15

Pro Gln Leu Gly Ala Thr Ala Gln Gly Lys Val His Met Gly Leu Ser
 20 25 30

Thr Ala Gln Gly Ser Ile Gln Asp Ile Lys Val Pro His Ser Ile Asp
 35 40 45

Leu Val Ala Lys Lys Lys Lys Gln Thr Leu Ile Ser Phe Cys His Pro
 50 55 60

Ser Asp Pro Leu Glu Leu Leu
 65 70

<210> 556

<211> 81

<212> PRT

<213> Homo sapiens

<400> 556

Asn His Pro Glu Gln Gly Ser Ser Thr Pro Arg Pro Gln Thr His Thr
 5 10 15

Ser Pro Arg Thr Ile Met Asn His Thr Thr Gln Glu Glu Val Ser Thr
 20 25 30

Arg Gln Ala Lys Glu Ala Ser Pro Val Leu Thr Ala Thr Arg His Gly
 35 40 45

Ser Tyr Tyr Ser Leu Asn Ser Ala Ser Thr Gln Ile Ser Asp Asn Ile
 50 55 60

Arg Asn Ser Leu Glu His Glu Pro Cys Cys Glu Leu Pro Ile Arg Arg

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<210> 557  
<211> 54  
<212> PRT  
<213> Homo sapiens  
  
<400> 557  
Ser Leu Ser Ala Thr Pro Leu Thr Leu Trp Asn Ser Ser Asp Pro Leu  
                    5                               10                      15  
  
Glu Gln Ala Tyr Leu Ile Ser Ala Arg Glu Lys Thr Asn Asn Gly Leu  
                20                          25                  30  
  
Lys Gly Ser Leu Thr Met Lys Val Ser Ala Asn Ser Trp Leu Arg Cys  
        35                                40                        45  
  
Gly Phe His Ile Arg Phe  
    50
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<210> 558
<211> 77
<212> PRT
<213> Homo sapiens
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<220>  
<221> VARIANT  
<222> (1)...(77)  
<223> Xaa = Any amino acid
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<400> 558
Asn Asp Arg Asp Arg Asn Ser Asn Lys Val Ile Xaa Lys Ala Asn Leu
          5                      10                      15

Ile Tyr Phe Thr Asn Leu Thr Ser Cys Leu Ser Val Gln Asn Gln Thr
          20                      25                      30

Phe Thr Cys Thr Lys Arg His Lys His Leu Gln Cys Ser Ser Val His
          35                      40                      45

Leu Cys Lys Ile Pro Pro Arg Leu Lys Gly Arg Asp Lys Lys Lys Lys
          50                      55                      60

Pro Ser Tyr Leu Ser Gly Val Leu His Ser Arg Ser Tyr
          65                      70                      75

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<210> 559
<211> 50
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<212> PRT

<213> Homo sapiens

<400> 559

Thr Leu Pro Pro Leu Arg Ser Val Ile Thr Leu Glu Thr His Trp Ser
5 10 15

Thr Asn Pro Val Val Asn Cys Leu Ser Glu Gly Ser Arg Leu Cys Ala
20 25 30

Ser Tyr Glu Asn Leu Met Pro Asp Asp Leu Ser Leu Ser His Phe Ala
35 40 45

Pro Arg
50

<210> 560

<211> 56

<212> PRT

<213> Homo sapiens

<400> 560

Ile Gly Ser Leu Lys Gly Pro Thr Thr Ala Gly Ser His Cys Ser Gly
5 10 15

Glu Gly Ser Tyr Gly Thr Phe Tyr Cys Pro Arg Phe Tyr Thr Gly Tyr
20 25 30

Lys Gly Ala Ser Gln Tyr Arg Ser Gly Ser Lys Glu Glu Glu Thr Asn
35 40 45

Thr Asp Leu Phe Leu Pro Pro Leu
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<210> 561

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1)...(57)

<223> Xaa = Any amino acid

<400> 561

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5 10 15

Gly Leu Lys Ser Pro Glu Ile Lys Asn Pro Ala Pro Thr Gly Thr Ser
20 25 30

Asn Leu Ser Cys Phe Leu Ser Xaa Phe Trp Leu Met Gln Gly Thr Asn

35 40 45
 Ser Leu Pro Arg Glu Asn Tyr Leu Asn
 50 55

<210> 562
 <211> 59
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (1)...(59)
 <223> Xaa = Any amino acid

<400> 562
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 Ala Pro Met His Gly Ile Lys Asn Ser Ile Thr Ser Leu Ile Phe Leu
 20 25 30
 Ile Ser Tyr Leu Xaa Leu Glu Met Ser Ser Leu Ser Glu Ser Leu Val
 35 40 45
 Leu Ser Ser Gly Asp Tyr Val Leu Asp Thr Pro
 50 55

<210> 563
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 563
 Cys Phe Leu Phe Pro Tyr Leu Trp Leu Tyr Ala Gln Pro Leu Phe Pro
 5 10 15
 Lys Gln Gln Pro Pro Ala Leu Ala Pro Gly His Pro Asp Phe Ile His
 20 25 30
 Thr Gln Asn Glu Gln Ile Asp Pro Ser Pro His Ile Gln Asn Leu Met
 35 40 45
 Trp Asn Pro His Leu Ser Gln Glu Leu Ala Glu Thr Phe Met Val Arg
 50 55 60
 Asp Pro Leu Arg Pro Leu Leu Val Phe Ser Leu Ala Asp Ile Arg
 65 70 75

<210> 564
 <211> 64

<212> PRT

<213> Homo sapiens

<400> 564

Ala Cys Ser Lys Gly Ser Glu Glu Phe Gln Arg Val Arg Gly Val Ala
5 10 15

Glu Arg Asp Gln Cys Leu Phe Leu Leu Cys Tyr Gln Ile Tyr Thr
20 25 30

Val Arg His Leu Tyr Ile Leu Tyr Arg Thr Leu Gly Ser Arg Lys Ser
35 40 45

His Met Asn Leu Pro Leu Ser Ser Gly Ser Gln Leu Trp Leu Ala Pro
50 55 60

<210> 565

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1)...(57)

<223> Xaa = Any amino acid

<400> 565

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20 25 30

Asn Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu
35 40 45

Tyr Ala Val Ser Ser Xaa His Asn Val
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<210> 566

<211> 55

<212> PRT

<213> Homo sapiens

<400> 566

Ile Leu Leu Glu Phe Phe Arg Asn Gln Arg Gly Ser Leu Asn Pro Arg
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Lys Thr Val Pro Phe Ile Lys Ser Glu Gly Gly Glu Lys Lys Gly His
20 25 30

Cys Asn His Ser Val Val Ser Ile Asp Ser Ala Ala Ala Leu Leu Pro

35 40 45
 Leu Lys Leu Val Leu Leu Pro
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 <210> 567
 <211> 51
 <212> PRT
 <213> Homo sapiens

 <400> 567
 Tyr Ser Asp Phe Asp Val Phe Cys Ser His Thr Tyr Gly Tyr Met Leu
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 Ser His Cys Ser Gln Ser Ser Ser Pro Leu Leu Trp Pro Leu Gly Ile
 20 25 30

 Leu Thr Leu Ser Thr His Lys Met Ser Lys Leu Thr Leu Pro Pro Ile
 35 40 45

 Phe Arg Thr
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 <210> 568
 <211> 75
 <212> PRT
 <213> Homo sapiens

 <400> 568
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 Tyr Val Ala Phe Asn Ser Val Pro Ser Thr Cys Leu Leu Ala Ser Leu
 20 25 30

 Thr Glu Thr Pro Val Thr Thr Ile Leu Thr Ile Ile Ile Asn Leu Thr
 35 40 45

 Cys Phe Gln His Ala Glu Ser Ser Tyr Leu Phe Tyr Pro Leu Ala Asp
 50 55 60

 Phe Leu Leu Gln His Ile Ser Leu Gly Lys Leu
 65 70 75

 <210> 569
 <211> 4809
 <212> DNA
 <213> Homo sapiens

 <400> 569

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<210> 570

<211> 951

<212> DNA

<213> Homo sapiens

<400> 570

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<210> 571

<211> 819

<212> DNA

<400> 571

<210> 572

<211> 203

<212> DNA

<213> Homo sapiens

<400> 572

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<210> 573

<211> 132

<212> PRT

<213> Homo sapiens

<400> 573

Met Val Glu Gly Glu Gly Glu Ala Arg His Val Leu His Gly Gly Arg

Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg
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Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu
35 40 45

Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu
50 55 60

Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala
65 70 75 80

Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly
85 90 95

Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro

100 105 110
 Lys Cys Trp Gly Tyr Arg His Lys Pro Pro His Pro Ala Cys His Ile
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 Leu Leu Asn Tyr
 130

<210> 574
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 574
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 His Gly Gly Arg Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln
 20 25 30
 Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu
 35 40 45
 Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala
 50 55 60

<210> 575
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 575
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 Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu
 20 25 30
 Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly
 35 40 45
 Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp
 50 55 60
 Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys
 65 70 75

<210> 576
 <211> 68
 <212> PRT
 <213> Homo sapiens

His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr Lys Lys Leu Asn Tyr
20 25 30

Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His Ile Ala Lys Val Tyr
 35 40 45

Gln Pro His
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<210> 579
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 579
 Met His Phe Thr Phe Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu
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Leu Tyr Ile Arg His His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr
 20 25 30

Lys Lys Leu Asn Tyr Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His
 35 40 45

Ile Ala Lys Val Tyr Gln Pro His
 50 55

<210> 580
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 580
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 5 10 15

Cys Val Thr Ala Leu Lys Ala Ala Gly Pro Pro Leu Thr Phe Trp Lys
 20 25 30

Gly Lys Trp Val Gln Cys Cys Leu Pro Leu Trp Gly Leu Leu Gly Ser
 35 40 45

His Ala Phe Tyr Ile Tyr Ala Val Asp Ile Phe Met Phe Pro Gly Ser
 50 55 60

Phe Ile His
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<210> 581
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 581


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<210> 582
<211> 51
<212> PRT
<213> Homo sapiens
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<210> 583
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<212> PRT
<213> Homo sapiens
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Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
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Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
          35                      40                      45

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
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<210> 584
 <211> 76
 <212> PRT
 <213> Homo sapiens

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 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
 20 25 30
 Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
 35 40 45
 Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
 50 55 60
 Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
 65 70 75

<210> 585
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 585
 Met Val Tyr Arg Phe Gly Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu
 5 10 15
 Ala Ser Leu Gly Ser Ser Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp
 20 25 30
 Arg Gln Ala Asp Pro Ser Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu
 35 40 45
 Leu Phe
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<210> 586
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 586
 Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly
 5 10 15
 Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
 20 25 30
 Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser

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40

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Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
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<210> 587

<211> 1408

<212> DNA

<213> Homo sapiens

<400> 587

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<210> 588

<211> 81

<212> PRT

<213> Homo sapiens

<400> 588

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Leu Gln Phe Arg Gln Tyr Asn Lys Ser Val His Glu Val Asn Leu Lys
 20 25 30

Gly Ala Cys Phe Thr Val Ala Gly Leu Pro Arg Ala Trp Thr Thr Gln
 35 40 45

Tyr Ser Ile Ile Asp Lys Arg Ile Arg Gln Glu Ile Tyr Thr Cys Cys
 50 55 60

Leu Ala Phe Val Val Ile Tyr Thr Asn Glu Asn Met Tyr Tyr Ser Tyr
 65 70 75 80

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<210> 589
 <211> 157
 <212> PRT
 <213> Homo sapiens

<400> 589
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 20 25 30

Trp Cys Gln Lys Asp His Val Pro Gln Met Gln Asp Gln Asp Leu Glu
 35 40 45

Met Glu Ser Met Lys Ala Leu Glu Lys Leu Val Lys Arg Arg His Pro
 50 55 60

Pro Val Ile Phe Ala Ser Leu Val Gln Asn Val Thr Lys Met Pro Arg
 65 70 75 80

Met Ser Gly Val Cys Val Ile Leu Thr Val Leu Lys Pro Thr Ser Ile
 85 90 95

Pro Ser Ala Leu Leu Met Gly Asn Leu Met Ile Met His Ala Lys Ser
 100 105 110

Lys Lys His Arg Val Arg Asn Arg Arg Lys Leu Lys Ser Cys Leu Trp
 115 120 125

Val Asp Val Lys Ile Thr Gln Leu Gln Leu Leu Ser Leu Lys Met Gly
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Ile Met Gln Glu Gln Ile Met Gln Arg Met Leu Thr Asn
 145 150 155

<210> 590
 <211> 347
 <212> PRT
 <213> Homo sapiens

<400> 590
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 20 25 30
 Asp Asp Arg Glu Asn Asp Leu Phe Leu Cys Asp Thr Asn Thr Cys Lys
 35 40 45
 Phe Asp Gly Glu Cys Leu Arg Ile Gly Asp Thr Val Thr Cys Val Cys
 50 55 60
 Gln Phe Lys Cys Asn Asn Asp Tyr Val Pro Val Cys Gly Ser Asn Gly
 65 70 75 80
 Glu Ser Tyr Gln Asn Glu Cys Tyr Leu Arg Gln Ala Ala Cys Lys Gln
 85 90 95
 Gln Ser Glu Ile Leu Val Val Ser Glu Gly Ser Cys Ala Thr Asp Ala
 100 105 110
 Gly Ser Gly Ser Gly Asp Gly Val His Glu Gly Ser Gly Glu Thr Ser
 115 120 125
 Gln Lys Glu Thr Ser Thr Cys Asp Ile Cys Gln Phe Gly Ala Glu Cys
 130 135 140
 Asp Glu Asp Ala Glu Asp Val Trp Cys Val Cys Asn Ile Asp Cys Ser
 145 150 155 160
 Gln Thr Asn Phe Asn Pro Leu Cys Ala Ser Asp Gly Lys Ser Tyr Asp
 165 170 175
 Asn Ala Cys Gln Ile Lys Glu Ala Ser Cys Gln Lys Gln Glu Lys Ile
 180 185 190
 Glu Val Met Ser Leu Gly Arg Cys Gln Asp Asn Thr Thr Thr Thr Thr
 195 200 205
 Lys Ser Glu Asp Gly His Tyr Ala Arg Thr Asp Tyr Ala Glu Asn Ala
 210 215 220
 Asn Lys Leu Glu Glu Ser Ala Arg Glu His His Ile Pro Cys Pro Glu
 225 230 235 240
 His Tyr Asn Gly Phe Cys Met His Gly Lys Cys Glu His Ser Ile Asn
 245 250 255
 Met Gln Glu Pro Ser Cys Arg Cys Asp Ala Gly Tyr Thr Gly Gln His
 260 265 270
 Cys Glu Lys Lys Asp Tyr Ser Val Leu Tyr Val Val Pro Gly Pro Val
 275 280 285
 Arg Phe Gln Tyr Val Leu Ile Ala Ala Val Ile Gly Thr Ile Gln Ile
 290 295 300

Ala Val Ile Cys Val Val Val Leu Cys Ile Thr Arg Lys Cys Pro Arg
305 310 315 320

Ser Asn Arg Ile His Arg Gln Lys Gln Asn Thr Gly His Tyr Ser Ser
325 330 335

Asp Asn Thr Thr Arg Ala Ser Thr Arg Leu Ile
340 345

<210> 591

<211> 565

<212> DNA

<213> Homo sapien

<400> 591

actaaagcaa	atgaacaagc	tgacttgcta	gtatcatctg	cattcattga	agcacaagaa	60
cttcatgcct	tgactcatgt	aaatgcaata	ggattaaaaa	ataaatttga	tatcacatgg	120
aaacagacaa	aaaatattgt	acaacattgc	acccagtgtc	agattctaca	cctggccact	180
caggaagcaa	gagttaatcc	cagaggtcta	tgtcctaata	tgttatggca	aatggatgtc	240
atgcacgtac	cttcatttgg	aaaattgtca	tttgtccatg	tgacagttga	tacttattca	300
catttcatat	gggcaacctg	ccagacagga	gaaagtactt	cccatgttaa	aagacattta	360
ttatcttggt	ttcctgtcat	gggagttcca	gaaaaagtta	aaacagacaa	tgggccaggt	420
tactgtagta	aagcatttca	aaaattctta	aatcagtggg	aaattacaca	tacaatagga	480
attctctata	attcccaagg	acaggccata	attgaaggaa	qtaatagaac	actcaaagct	540
caattgggta	aacaaaaaaa	aaaaa				565

<210> 592

<211> 188

<212> PRT

<213> Homo sapien

<400> 592

Thr	Lys	Ala	Asn	Glu	Gln	Ala	Asp	Leu	Leu	Val	Ser	Ser	Ala	Phe	Ile
1			5					10					15		
Glu	Ala	Gln	Glu	Leu	His	Ala	Leu	Thr	His	Val	Asn	Ala	Ile	Gly	Leu
		20						25				30			
Lys	Asn	Lys	Phe	Asp	Ile	Thr	Trp	Lys	Gln	Thr	Lys	Asn	Ile	Val	Gln
	35						40				45				
His	Cys	Thr	Gln	Cys	Gln	Ile	Leu	His	Leu	Ala	Thr	Gln	Glu	Ala	Arg
	50				55					60					
Val	Asn	Pro	Arg	Gly	Leu	Cys	Pro	Asn	Val	Leu	Trp	Gln	Met	Asp	Val
65				70					75					80	
Met	His	Val	Pro	Ser	Phe	Gly	Lys	Leu	Ser	Phe	Val	His	Val	Thr	Val
			85					90					95		
Asp	Thr	Tyr	Ser	His	Phe	Ile	Trp	Ala	Thr	Cys	Gln	Thr	Gly	Glu	Ser
		100					105					110			
Thr	Ser	His	Val	Lys	Arg	His	Leu	Leu	Ser	Cys	Phe	Pro	Val	Met	Gly
	115					120					125				
Val	Pro	Glu	Lys	Val	Lys	Thr	Asp	Asn	Gly	Pro	Gly	Tyr	Cys	Ser	Lys
	130				135				140						
Ala	Phe	Gln	Lys	Phe	Leu	Asn	Gln	Trp	Lys	Ile	Thr	His	Thr	Ile	Gly
145				150				155						160	

Ile Leu Tyr Asn Ser Gln Gly Gln Ala Ile Ile Glu Gly Thr Asn Arg
 165 170 175
 Thr Leu Lys Ala Gln Leu Val Lys Gln Lys Lys Lys
 180 185

<210> 593
 <211> 271
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(271)
 <223> n = A,T,C or G

<400> 593
 actttatggt cnagtgcana aancncctg gattgccacc ntactctcag ggctgtgant 60
 tgtgcnccca nagcaacctg ggcacgcggg gacagggggg ccnacaattg agggagcggt 120
 gtccttagct ggggtctata catgncngg naagggcngc tgagtnccat nagcaaagga 180
 nctagnatnt gcgggggtgc ggcctgggcc taccctttna agcatccntn gatccactcc 240
 angaancng gggtagncag gtttnccaac a 271

<210> 594
 <211> 376
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(376)
 <223> n = A,T,C or G

<400> 594
 cctttggggg nggggggaac ctttaccatt gtnccctttt atttcatttg gttnggggttc 60
 gcgcctcnn gggccaacaa agttatcgtn nttgaagaga anattttttt ggnttngncc 120
 cgattaagcg ncaaatgtgt agcaaaangc cgtgccactt gtggcgtagc tncgtcgggt 180
 cgattcgacg acaaggcgtn gcgcgntanc gttagtctcn aatngaccn gtggcatgag 240
 cccacgangg nttcgtgtcg tcacatggnc tctagacata acgcnncn ttttttncag 300
 agggggntgc cgcccttagg gaggnagggg tggggacact agccaancca nantctnacc 360
 ccattgaaga aaaggn 376

<210> 595
 <211> 242
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(242)
 <223> n = A,T,C or G

<400> 595
 agnctgctgn tcgtnccctn tatgtggctt catnntgagg acaanagtng cactgaggct 60
 tgngnatgcc aggcaaggnc aagctggctc aaaaagcatc caccacctc tgnaanggggt 120

```

atgccangag cangtgcacc agtcccaact angagnccn ggcatgntac atcttcttcc 180
accctnaaa ntttnggcta caangnccat ttttctttt ctcttaaggg ncncttggt 240
tc 242

```

```

<210> 596
<211> 535
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(535)
<223> n = A,T,C or G

```

```

<400> 596
accagttgga tactgctaaa nagatattta tgcagcctca tatgttaagt cgtatatttt 60
gaaagctttt taaatttttt cttaagaag atttttagatg cttatcactg agtaccagag 120
ggatgtaggc tgatgccctt atcaacaaag tcagggactg tggcacacaa ggattgacta 180
ctgcagacac ggccacaatg ctacctctag agggcctgaa tccccctgcc ctctctggtg 240
gggagaaggg ctggcagagc cattagcatg ggctccggcc aatcctggcc actttgacac 300
tcctggtgct gaccaggggt cctggaggaa gggatgaggt gggcagtaga gatgctcagg 360
gcagtggccc ctttccatcc aacttggaac tatttcagta ttttaccacc aattcagcca 420
ttcccttggt cgctggctga acatcagccc tgctccaggt ctccagtttc cctttgtaaa 480
gggaaagctc tggattcagg gagtgatgaa gaggtcatca tgggtcttgag aattc 535

```

```

<210> 597
<211> 257
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(257)
<223> n = A,T,C or G

```

```

<400> 597
tttcnatacc caaaantacc ccatattang accanacatt tgtctnggaa aaattaccat 60
tntntaactt ttgggccacc tgagannaaa tgggtgtaat ncatgataag atggancagn 120
attnctctta agatnngatn agaccccggt ttacacggaa catatccaag nacccaatag 180
gnaacaagcc acgggnggag tcacaaacat atattcttta ctctcataat ccgtnnca 240
naactnttgn acttgac 257

```

```

<210> 598
<211> 222
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(222)
<223> n = A,T,C or G

```

```

<400> 598
nntggntacc gtcnaaactt nnccttggtac ccgagctcgg atccactagt ccagtgtggt 60

```



```

ggaattccat tgtgttgggc tataagctgt aatagtggag ncgtgctngg ttcattgcan 120
nagncctcc gcanncacnc ttggnacaac ctgtgagnag gcataaatt attcacataa 180
tcatcactgc atgaanctga ctcaaacgca tccacntaca cc 222

<210> 599
<211> 238
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(238)
<223> n = A,T,C or G

<400> 599
gcatgacatc ancgatgtnt ttggnnacct ganattngct aaaactngng natgccgggn 60
atgnagggttt ggtantgatc tatgcaactca catctcatgg ggacgtttca tgtggagtgn 120
tcgacaangt tgcctgnancn gagaagtgat gatctcagtt gaaagggtca tgtgaatata 180
cnttacactt gaaaaagaag cacattggga atatcacgaa acgnccacca acatcctg 238

<210> 600
<211> 232
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(232)
<223> n = A,T,C or G

<400> 600
cgaactatatt agactaccta ggaaaattat tttagtatca gaagaatata aggggtgtag 60
tactcatcag agctaaatga gagcgcttta aaaatgttag tttgtcttcc gccattttcta 120
cagaaagctg caatttcagg ttttcaacct aatagggtgat atttaaaaaa aaaaaaaagc 180
aatcgcaaat agccccactg cttttacaaa tcattttttc cccaacacaa tg 232

<210> 601
<211> 547
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(547)
<223> n = A,T,C or G

<400> 601
cattgtgttg gggaaaaaat gatttgtata agcagtgggg ctatttgcca ttgctttttt 60
tttttcttaa atatcaccta ttaggttgaa aacctgaaat tgcagctttc tgtagaaatg 120
gcggaagaca aactaacatt tttaaagcgc tctcatttag ctctgatgag tactacaccc 180
ctnatattct tctgatacta aaataatttt cctagtgtag tctaaacttt tttaaaaaga 240
catgtaatcc gcggagttag taactcaaaa cgagtgcata tnggaagtat cgcagccggt 300
nctggatnaa attcccagct tgctngettg ctnagccggg gggcggtnaa aaaaacatct 360
qcagcccnng ggnaaaaacc ttgcgattgt tcttacgtgt ttacgttatt ttatttccct 420

```

nnagcaaggc nggganttgg ggactcgaaa tgggtacagtt gggctgggga tcgcccttgt 480
 tacataaaaag ncgtccagaa gagggacggt tacaggcngg ganctccaaa ggtcagtcctc 540
 tgccatt 547

<210> 602
 <211> 826
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(826)
 <223> n = A,T,C or G

<400> 602
 cgggggggnnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg 60
 taccattcga gtcctactc ctgccttgct ctagggaaat aaaataacgt aaacacgtaa 120
 gaacaatgcg aaagcgtttt ctccctagg ctgcagattg tcttcttcac cgccctgct 180
 tagctagcta gctagctggg aatttaaatcc agaaacggct tgcgatacct cctagatgca 240
 ctcgttttga gttacaaact ccgcggatta catgtctttt taaaaaagtt tagactacac 300
 tagggaaaat tatttttagta tcagaagaat atcaggggggt gtagtactca tcagagctna 360
 atgagagcgc tttaaaaatg ttagtttgct ttccgccatt tctacagaaa gctgcaattt 420
 caggttttca ncctaatagg tgatatntaa gaaaaaaaaa acaatcgcan atagcccact 480
 gctttttacaa atcatttttc tcttctagggt atagcctgtc aggtggccta atgtattttt 540
 gacatctcta ggaattttta tagaccagaa atgggtgcca gagatatgcc tgcactaatc 600
 ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaactag gcacgaatga 660
 aatcaagatc tttaggccag aaatcatgaa nanttttana attattttan gaatctgtgg 720
 cttctcttct taaaatngaa aaaaaaattg tttaaaccca naaggctctga ataccaagc 780
 nccctgaacn anagaacaan gccggagcac cccctcccaa atcccc 826

<210> 603
 <211> 817
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(817)
 <223> n = A,T,C or G

<400> 603
 nnangacttt tgtggtntta tacaattntt ttttctattt ctatgaagag aaagccacag 60
 agtcctaaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa 120
 tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt 180
 agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa 240
 aattacatta ggccacctga caggctatac ctagaagaga aaaaatgatt tgtaaaagca 300
 gtggggctat ttgcgattgc tttttttttt tcttaaatat cacctattag gttgaaaacc 360
 tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgctctc 420
 atttagctct gatgagtact acaccctga tattcttctg atactaaaat aattttccta 480
 gtgtagtcta aactttttta aaaagacatg taatccgcgg agtttgtaac tcaaacagag 540
 tgcacttagg aggtatcgca agccgtttct ggattaaatt cccagctage ttgcttgctt 600
 agcagggggc ggnaaanaag acatctgcag cctaggggag aaaacctttc gcattgttct 660
 tacgtgttta cgttattttta tttcctanaa caaggcngaa ttgggactcg aatggttcag 720
 ttgggggtggg ggatccccctg gtncataaaa ngtcanaaag anggtacagg cggaacncca 780

agggtcgtcc tgcatttana ctcggaattt tgggtgcc

817

<210> 604
 <211> 694
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(694)
 <223> n = A,T,C or G

<400> 604
 cttttcaaatt cattttttnct cttctaggta tancctgtca ggtggcctaa tgtaattttt 60
 gacatctcta ngaatttttaa tagaaccaga aatgggtgcc agagatatgc ctgcactaat 120
 cttaagtggg gatttatgta tttctcaagc aagtgattaa agcaaaacta ggcacgattg 180
 aaatcaagat cttttaggca anaaagtcac gatgagtttt agaattattt taggactctg 240
 tggcttttctc ttcatagaaa tagaaaaaaa aattgtataa aaccacaaaa ggtcctgaat 300
 agccaaagca acactganca aaaagaacan agcagggaag caacacacta ccngaattca 360
 aattatacta ccagggtgta gtaacccaaa cagcattcta ttggcataaa atagacacca 420
 agaccaatgg ancagaataa agaacccac aaataaatcc atatatntac cgccanctga 480
 ttatcaataa cnaacaccaa gaacatatnt taagggacnt nctattcaat aantagtgtc 540
 ggnaaaaact gggaaatcca tatgcagaaa naatgaaact agaccctat cctcaccat 600
 acgcaaannt caacttcgga atgggattac aaaacttaag acattccaac ccaagaaact 660
 atnaaancta ctattaagaa aacagatcnc nccc 694

<210> 605
 <211> 678
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(678)
 <223> n = A,T,C or G

<400> 605
 taaaaatcta gactacacta ggaaattatt ttantatcag aagaatatca ggggtgtagt 60
 actcatcana gctaaatgag agcgctttta aaatgttagt ttgtcttccg ccattttctac 120
 agaaagctgc aatttcaggt tttcaaccta atagggtgata tttaagaaaa aaaaaaagca 180
 atcgcaaata gccccactgc ttttacaatt cattttttct cttctaggta tagcctgtca 240
 ggtggcctaa tgtaattttt gacatctcta ggaattttta tagaaccaga aatgggtgcc 300
 agagatatgc ctgcactaat cttaagtggg gatttatgta tttctcaagc aagtgattaa 360
 agcaaaacta ggcacgattg aaatcaanat cttttaggca agaaagtcac gatgagtttt 420
 anaattattt taggactctg tggcttttctc ttcatagaaa tagaaaaaaa aaattgtata 480
 aaaaccacaa aaggtcctga atagcccaa gcaacactga acaaaaangaa caaagcagga 540
 agcaacacac taccggaatt caattatact accaaggtgt antaaccaaa acagcattct 600
 attgggcata aaatagacca aagaccagtg ggaaacagaa taaagaancc caaaataaat 660
 cctatattta cngccnc 678

<210> 606
 <211> 263
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(263)
 <223> n = A,T,C or G

<400> 606
 gtggggctcng cancagccaa ctcagcttcc tttcgggctt tgtagcaga cggatcatcc 60
 tctagtccac tgtgntcaaa ttccattgtg tgggggccnc tcgcctcggc canagatctg 120
 agtgancana cntgtcccca ctgaggtgcc ccacagcngn ttgtnttcag cangggctna 180
 caactcgacc ggcagcgan ggctggcaga antgngcgcc tnnctcatte ctacgngtn 240
 ngccgcagga aggangacag gcc 263

<210> 607
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 607 22
 ccatgtgggt cccggttgct tt

<210> 608
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 608 22
 gataggggtg ctcaggggtt gg

<210> 609
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 609 40
 gctggacagg gggcaaaagc tggggcagtg aaccatgtgc

<210> 610
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 610
 ccttgccag atagcccagt agctgac 27

<210> 611
 <211> 46
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 611
 gatagagaaa accgtccagg ccagtattgt gggaggctgg gagtgc 46

<210> 612
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 612
 gcacatgggt cactgcccga gcttttgccc cctgtccagc 40

<210> 613
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 613
 gccgctcgag ttagaattcg gggttggcca cgatgggtg 38

<210> 614
 <211> 53
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 614
 cggcgggcat atgcatcacc atcaccatca catcataaac ggcgaggact gca 53

<210> 615
 <211> 46
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primer

<400> 615
gcactcccag cctcccacaa tactggcctg gacggttttc tctatc

46

<210> 616
<211> 1350
<212> DNA
<213> Homo sapien

<400> 616
atgcatcacc atcaccatca catcataaac ggcgaggact gcagcccga ctgcagccc 60
tggcaggcgg cactggtcat ggaaaacgaa ttgttctgct cgggcgtcct ggtgcatcgg 120
cagtgggtgc tgtcagccgc acactgtttc cagaactcct acaccatcgg gctgggcctg 180
cacagtcttg aggcgacca agagccaggg agccagatgg tggaggccag cctctccgta 240
cggcaccag agtacaacag acccttgctc gctaacgacc tcatgctcat caagtggac 300
gaatccgtgt ccgagtctga caccatccgg agcatcagca ttgcttcgca gtgccctacc 360
gcggggaact cttgcctcgt ttctggctgg ggtctgctgg cgaacggcag aatgcctacc 420
gtgctgcagt gcgtgaacgt gtcggtggtg tctgaggagg tctgcagtaa gctctatgac 480
ccgctgtacc accccagcat gttctgcgcc ggcggaggggc aagaccagaa ggactcctgc 540
aacggtgact ctggggggcc cctgatctgc aacgggtact tgcagggcct tgtgtctttc 600
ggaaaagccc cgtgtggcca agttggcgtg ccagggtgtc acaccaacct ctgcaaattc 660
actgagtgga tagagaaaac cgtccaggcc agtattgtgg gaggtgga gtgcgagaag 720
cattcccaac cctggcaggt gctgtggcc tctcgtggca gggcagctctg cggcgggtgtt 780
ctggtgcacc cccagtgggt cctcacagct gccactgca tcaggaacaa aagcgtgatc 840
ttgctgggtc ggcacagcct gtttcatcct gaagacacag gccagggtatt tcaggtcagc 900
cacagcttcc cacaccgct ctacgatatg agcctcctga agaatcgatt cctcaggcca 960
ggtgatgact ccagccacga cctcatgctg ctccgcctgt cagagcctgc cgagctcacg 1020
gatgctgtga aggtcatgga cctgccacc caggagccag cactggggac cacctgctac 1080
gcctcaggct ggggcagcat tgaaccagag gatttcttga ccccaaagaa acttcagtgt 1140
gtggacctcc atgttatttc caatgacgtg tgtgcgcaag ttcacctca gaaggtagc 1200
aagttcatgc tgtgtgctgg acgctggaca gggggcaaaa gctggggcag tgaacctgt 1260
gccctgcccg aaaggccttc cctgtacacc aagggtggtc attaccggaa gtggatcaag 1320
gacaccatcg tggccaaccc cgaattctaa 1350

<210> 617
<211> 449
<212> PRT
<213> Homo sapien

<400> 617
Met His His His His His His Ile Ile Asn Gly Glu Asp Cys Ser Pro
1 5 10 15
His Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu Phe
20 25 30
Cys Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Ala His
35 40 45
Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu Gly Leu His Ser Leu Glu
50 55 60
Ala Asp Gln Glu Pro Gly Ser Gln Met Val Glu Ala Ser Leu Ser Val
65 70 75 80
Arg His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu
85 90 95
Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile
100 105 110

Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser
 115 120 125
 Gly Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys
 130 135 140
 Val Asn Val Ser Val Val Ser Glu Glu Val Cys Ser Lys Leu Tyr Asp
 145 150 155 160
 Pro Leu Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Asp Gln
 165 170 175
 Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly
 180 185 190
 Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys Ala Pro Cys Gly Gln Val
 195 200 205
 Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Glu Trp Ile
 210 215 220
 Glu Lys Thr Val Gln Ala Ser Ile Val Gly Gly Trp Glu Cys Glu Lys
 225 230 235 240
 His Ser Gln Pro Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala Val
 245 250 255
 Cys Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His
 260 265 270
 Cys Ile Arg Asn Lys Ser Val Ile Leu Leu Gly Arg His Ser Leu Phe
 275 280 285
 His Pro Glu Asp Thr Gly Gln Val Phe Gln Val Ser His Ser Phe Pro
 290 295 300
 His Pro Leu Tyr Asp Met Ser Leu Leu Lys Asn Arg Phe Leu Arg Pro
 305 310 315 320
 Gly Asp Asp Ser Ser His Asp Leu Met Leu Leu Arg Leu Ser Glu Pro
 325 330 335
 Ala Glu Leu Thr Asp Ala Val Lys Val Met Asp Leu Pro Thr Gln Glu
 340 345 350
 Pro Ala Leu Gly Thr Thr Cys Tyr Ala Ser Gly Trp Gly Ser Ile Glu
 355 360 365
 Pro Glu Glu Phe Leu Thr Pro Lys Lys Leu Gln Cys Val Asp Leu His
 370 375 380
 Val Ile Ser Asn Asp Val Cys Ala Gln Val His Pro Gln Lys Val Thr
 385 390 395 400
 Lys Phe Met Leu Cys Ala Gly Arg Trp Thr Gly Gly Lys Ser Trp Gly
 405 410 415
 Ser Glu Pro Cys Ala Leu Pro Glu Arg Pro Ser Leu Tyr Thr Lys Val
 420 425 430
 Val His Tyr Arg Lys Trp Ile Lys Asp Thr Ile Val Ala Asn Pro Glu
 435 440 445
 Phe

<210> 618

<211> 385

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(385)

<223> n = A,T,C or G

<400> 618
 ctgtgctgag aacccaaaagc tatgancact gcttttccaa atgtccataa naccaacatt 60
 tttatcacta ccaccatcac ctgggagctc nttagaaagc tagtctcccg ggcaccaccc 120
 tggcctactg aacctaatgt gcattttaaca agattnacgt ngaaatctgc aaagcacagg 180
 ggcngataac agtaccacct gntctggttc ctanccccan gaccettaca gtctaactgg 240
 gacacaaggg cttnaaatca aattgcctat cattaagata tacaanganc ntgagaaact 300
 gctncactta tntattaagg ngctctaaga cttagaaacn aaangcantg ctgagangat 360
 tcaaatatga ngggggncac tttnc 385

<210> 619

<211> 869

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(869)

<223> n = A,T,C or G

<400> 619
 gatatcccgg gaattcgcg cgcgctcgac ctctacttgt ttagacataa atgcagtcta 60
 gcattaaaga tcctttaaaa aaatgttttc ccaatggtta aaagacaagc tcaaataaat 120
 gaactctcat acatatgcc aattgatga gtagataaat atttcagtag gtagttacta 180
 gctttctgtg tatgagtaaa catatgggag aaatttaaaa cactaaagta gactcaatga 240
 aagcatagta tcctatgtat tcgtttttca gaaatgtcta atgaaggaag gaaacaatga 300
 atgaatgcc ttattcctct tagagtgtg ggacatggt ttgcctgaaa acttcagtgt 360
 aattttatat tttgctacac attacaccca tcttagactt atacgtataa gacataaggc 420
 atatcttatg tcttacatgt ataataatct aagcagaaca aaaaataacg aaatattttc 480
 ttccccaagt ttttgagaca gatggatttt ccggaaaagat gtgttttagct tttaatcctg 540
 tgggtttgtg taccacctgg cacactagag tgttgcctta attcagtgag ttgtaactct 600
 ggggtgaacag tggaaatact aggttacatt ttaaaaatgc taatgctcgg gcctcgctga 660
 agaccaaatt aattggaatc tctgngggng gnattgatct ttttataatc tttctanang 720
 attctaattg gcttcaggag atgaaaacn ctgntggagc tnggaacctt cctttagttt 780
 ggagaaaacc cgatgagggt ntnttaggcn ccgcctnttt ttggcctggg cttccccctt 840
 tatnntnttt tggaanggnc cnaattttt 869

<210> 620

<211> 339

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(339)

<223> n = A,T,C or G

<400> 620
 gngcgggctt cnccggtgctt gctctcgtcg ccgacgctct ttttccacca gctgtaggan 60
 aagcccgaag accactggtc ccccgggtag cccaagtacc actggtcctc ctggctcctg 120
 acgctnccgg tcttcctcgt ggcgtagact gccagcttcg gagaccctc agccctccc 180
 cgctttttct caccacagga ggccatcagt agcgagctac tgcctcggcc acaacctccc 240
 agcangatag cccgcggttt ccaatctcgc aaaggaggac cgccnagccc gaaatgccna 300
 gcccagcnat cactgccacg ccgagccnag cgctcgtgc 339


```
<220>  
<221> misc_feature  
<222> (1)...(267)  
<223> n = A,T,C or G
```

```
<210> 622
<211> 847
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(847)
<223> n = A,T,C or G
```

```
<210> 623
<211> 681
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(681)
<223> n = A,T,C or G
```

```

<400> 623
aaaactgtac tcgcgcgctg catgtcgaca ctagtggatc caaagaatcg gcacgagcga      60
aaangctcan gcagcccggc tggccgcccgc cgctcctccc cccaggaaaag ccaangtgga      120
ngctgatgtg gctgcangag ctcgtttcac agccccctcan gtgganctgg ttggggccgcg      180
gctgccangg gcggaagtgg gtgtccccan gtctcagccc caaggctgcc cctcaciaaag      240
cactggtggt ttgcctccac tgccaccttg ggctccgaac ccgctcccct gctgtggang      300
cccaccgtgg gaatccaggt ccccaggtgg actgcctgcc ttgccctcac tgcccactct      360
gcccacactt ccctgcctag anaccgggaa ggggctgtgt cggtantggt gcccacctgg      420
atgtggcagc accgactgtg ggggtggacc tggccttgcc gggtgcaaaa gtggggggccc      480
ngggaaaagc acctgaagtg gccctgaaaa atccccctt aatttttccc caatttgggg      540
ctcnaacaaa aggaaattgc tgaagccaan ggtaccaagg tcaccctaa ggccagggtg      600
aaaaggtccc aaaattccaa tnccacnt ttgggcttnc ctcttggaac cccggcccc      660
tctcntgaan ttttaaaaaa n                                         681

```

```

<210> 624
<211> 661
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(661)
<223> n = A,T,C or G

```

```

<400> 624
attggtctta ctgtaccacc ggggtggaaat cgatggccgc ggogtctaaa tatccgattt      60
tttttttttt tectcttctg actgtccatg gacaaatgaa actaacttaa tctaactaaa      120
aaacacaact atattttgaa gattttctat ctgcactcaa ggacactttc cacnccggtt      180
ttgttacctt ttgggtcttg ctctgaacat gaaattnatc tcaagggatt ngatttctgg      240
acctcctatt cctgctatgg gtttgatatt tcttgggctc cagggccact gttgcattgg      300
gntgacagnt acctcctagc ccatanctc ctatcttggg aaacaaaact aacaactacg      360
tgtaccttcc atagatctct gattgagtct cagtatncgc ttgctcatgg gcgattcact      420
tgaatccgtn attggtgcc acaatcctga ctcatggggnn aatggatcct atcacgttcc      480
cctgattngc aacccctgta tacatanatc taatcgcata gaatctagcn tnggntatgc      540
gcggctacgc tatcagggnt tgntaactat ngcatggcta cgaancctga tcatgatcna      600
gggtcatgga ctcttatcag ggggggttgg ccngcttct ttttcnnacc ttggtaaaaac      660
c                                         661

```

```

<210> 625
<211> 181
<212> DNA
<213> Homo sapien

```

```

<400> 625
gcaacaatca gatcatgtta aagtaaatct ccattgccct ggatcacttc aggatttaat      60
tgtccaagga gagcaggggt ctctgtgaa aaaaagggtg ggaaatgttt gagagtaaaa      120
aatacaaaat tcaaccgggtc gaaaatacac cactccattc agtgcctctac ccccataagc      180
c                                         181

```

```

<210> 626
<211> 181
<212> DNA
<213> Homo sapien

```

<400> 626
gcaacaatca gatcatgtta aagtaaatct ccattgccct ggatcacttc aggatttaat 60
tgtccaagga gagcagggtt ctcctgtgaa aaaaagggtg ggaaatgttt gagagtaaaa 120
aatacaaaaat tcaaccggtc gaaaatacac cactccattc agtgcctctac ccccataagc 180
c 181

<210> 627
<211> 813
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(813)
<223> n = A,T,C or G

<400> 627
accaagctgg agctcgcgcg cctgcagggtc gacactagtg gatccaaagt gaacgtgaag 60
gtgagcagag gagaacttgc gatggcaaaag ttaaaaaacaa gaggagatga tggctcttgg 120
gtggcacagg atgttaaaaa aattctcctg tccttaagga gttactgcta tttagtaaat 180
gtgccacttc cctacatagc cttctatgca gaaatgctat atttcactt cacaaccag 240
aacgtgcatt ttatttttaca tttagaggag gaacaaacaa ccagaaggca aaaactggtg 300
cattatTTTT tgcaattctc ttggaaagag ttctgttttta acttctgctc agacagcaca 360
caactactgg gaatatattt taatttcaaa tctgatgtgt gacatctggg aactcattta 420
ttgctaataga agttttcaca ggaagcagca gtcaccagta gctcatctta tttttcagtt 480
ggcaaagtgt tgtttacett ttattggcct gcatcggtgt ctcttatcac aggatattta 540
attagaaaaac gcaagtagcc taacatagaa nagaaatgga gtggtagata atagtagata 600
gaatggctaa atatttttat tacagtgatg taatatcact gnaatttatg gttaaaaatt 660
atgtaatact caaaaggaat tctcagactg gcgaaacagc tggncacag ctntcacagg 720
gcttttnanct cctnttgagc tttccccctg ntggacttta gtcttccttt tacncccgna 780
gttnocattn nttaccaatt gtnccgggaa ana 813

<210> 628
<211> 646
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(646)
<223> n = A,T,C or G

<400> 628
tttggngngn ggtgtctent ttgggtggac tttttgggtc gtagggcccc aaggccgtta 60
atcccgtaat aacggaagac gaagaagagt cagaagagtg cttctataag gatcgggacg 120
agactacctt agaggaataa aggaaaaaag cagaggagga agagtggtag aaggagtcag 180
aagaaaccca cacgtcgttc tgaacctgga gccttatcaa aaaggtctag ataaacgata 240
gcatctcga tatcgagctc aagaggtagg tttagagact tctcgtcctc gagagcgaaa 300
tggaagatct cgacgacgat aagaagttaa agtgtagagg gtgcttgagg agcgcggtgga 360
aggattctgc ggagggaccc atcgacgtag agacttgaag gcctactaag gtccacaaga 420
agccccgctc tttctccgaa tggtcgggagc gtacagtatg cgacgtcgat cggcagacaa 480
gctggcggtg gactcgaagt gttcggggcg atcgacttat aatagtcgag cgctagtaac 540
gtaggaacac gaagagtagt cgaaagaaaa cgtttagtga gggaaaagat tagggaaaaa 600

ggagaggctt aataactaag acacttggag cctaggccaa cgcgaa

646

<210> 629
<211> 617
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(617)
<223> n = A,T,C or G

<400> 629
gccccnccc cctcctnngg gcttatnngg acagaccac gtagtactct aaatcttctc 60
ctacgccgga caacggaccc tataccaatt cgaatcttgg aactccgac cgccggattc 120
tcttcccctt tcggcttccc ctttctgtcg gtacccctcc ctatgcgtct cctacacctt 180
cgtaccgtcg atatatagtc gccggcgact agcctattta ggtgtcctag actcgttatt 240
gatccactca ttagtctagt actatgcgtc acgtatctta gttgcctaag agggagatta 300
aatcctccac aagtccgac gaattcctgg actctcgtac tagcaaacctt tcttatgagg 360
cttcttgta tatcttctgg atgtttctcg tgtcccggtc ctccgctact actagagctc 420
cttgccctat ctctagaagt agaggactct cgggttcggt ctccaaatct agcgctagag 480
ctatcgtac ccgctcgatt cccccagcgg aatcttgaaa cctgaggtag tacacaaacc 540
ctcncatct tccctcggtt gctccttctt ctcatcccc cttcccgctt tctcgggan 600
gaatctactt tancttc 617

<210> 630
<211> 644
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(644)
<223> n = A,T,C or G

<400> 630
cnntcggcnt gggttttntt ctgagnncc ccccccccc ccccccaaa cttacaccca 60
ccaaacactt tccgccccct acctaggaga cattagaagg gtttaggctt cggcgtatag 120
taaagtcttc tacctcgaa gtagagaatt cggatattta attcagggtt agaggctcgc 180
tcgttagatt tatagttag gtttagaatc ggaaaccttc gatcttctt agaagggtaa 240
taagtgaggc cctaaatccg tctaaccaag gcgttaaggt ccgtacctaa acctagtctt 300
atcttctatc aggcgcacca atataggtag gttctacttt cgtataggcc ttaaggaata 360
gttcggtagt tatcgaaggc actcctctct aggctaggct tttctcagtc ttagtactcc 420
gggaccgtcg tcgcanaaat atcgatggac ggtaggtatc tccgcgttac gcgtcgggct 480
agggatatag agcgaattat cggcgagagg cggtcgctan gaatcgggtat caatatgntg 540
ttctttaccc tacggatatc ggcagaaaac ataaaacctt ctnaccangg ataagggtatt 600
atcggacccc taaaataaca gtaacattta gantactagt accc 644

<210> 631
<211> 526
<212> DNA
<213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(526)
 <223> n = A,T,C or G

```
<400> 631
ccntcggctt ggggtttttt ctgagccccc cccccccccc cccccccccc cccccccggc    60
cccatagccc caccggnccc acccaaattt taacaaaata aatntaccta tcgntcacct    120
atcccnctga tcgngtaggt cgggtaccgg accgnggatc ncnacgattn ttcggggtcgt    180
cncccttaan acggncccgt agccnccgga anaaatacta cgagngactc taatntagca    240
anaccgcgcg tcnattanta gcctccttag tcttccaatg ncgnggattn ngaatccttn    300
naagttatcg ggtagaacgg gtcccgggtc cccgcctctt ttncaattaa cgccgggtac    360
aaantcgggt tctaaattcc ncaogaattt ngncggcaac attcncgggn ccttattanc    420
cnthtccaac cccgatacnc nagctcgatc gggctttanc gaatccgggg tcncccccca    480
ngantccggg tcctttgagt ngctctagga cggttacgac ggagga                    526
```

<210> 632
 <211> 647
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(647)
 <223> n = A,T,C or G

```
<400> 632
tttgggnggc gggngctcat ttgggtggac tttttgggtc gtaggaacct ggtatgaggg    60
gtggttttag tttcttcttc gtcgtctctg ggagggtcgg tttcgattga gattcgggtt    120
cgtctttatc ttacgaggca cctgatattt gttgcgcttt ggtttggttg tggagagttt    180
tgtcctactc tagcgggtca tgcggatgat atgtagcctg cgtggcctga tagtgatgtt    240
gtgagcttga gaggggagtt gtgggtgttg cgggcggagt aggaggggtt ggagcaccgg    300
gattgggaga tatagaatca taagtgttag gtataggctg attgagcgag ttcgtggaat    360
tcgtgtggtc atcataatta gagtgaggat gggctctata tttcttagag gacgcacggg    420
cgtgattcgg ggtttgatgg gtgttcttct tgtgggcacg attagcttgt tcatgatggg    480
aaggaccata ctgtttcgaa tgaggattcg tgtcttcgga ttgttggtga tattgtggnc    540
tanactatth agtgaagcc ggagggtggt tgccgtggtg gagtatccga nnttcattcg    600
ganggtatgc gtgcggagcg gtcctttagt acattccgga aaaatgg                    647
```

<210> 633
 <211> 630
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(630)
 <223> n = A,T,C or G

```
<400> 633
tccttcgggt tgggtttttt tctgaccccc cccccccccc cccctcggga aggcctctag    60
gtccccaccc gtctctctaa tcctcaggaa ccgatccacc caaccaactt actaatgtcc    120
tacagtaaac acccgagaat ataaaccac acctaggcct ccaatcctac cagggaagca    180
agaagccgta gtctagcgta ttacgaaccc gagatagaga cggagatact tagttttatt    240
ctctcggaat aggaaagacg actggggagg gaatatagga tagcgcgggg ataggggcta    300
```

```

tggcggatat gggggcgggt cgctctctta ttcttctata ccacgtcaat aggaatgtag 360
atatacctag atgttcccgt agaaagagac gttagaggtc tccgaagcta taaaggagag 420
gcgcgaaagaa acttcgtact ctagctttat ataggtagtc gctctagtcc cataagcgac 480
gagagatcta ctagatttcg gtatcgccgt cgtatgtatt cgaaatagtc ttcttcccct 540
tttcgatctc ctctctatac tacatggnga ttatagtent aagatagtca ggatattagg 600
atattagtta tatgacgttc gacgggacgg 630

```

<210> 634

<211> 647

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(647)

<223> n = A,T,C or G

<400> 634

```

ccntcggctt ggggtttttt ctgaccccc ccccccccc cctccactaa gancttaacc 60
caaccctata gtttactcgt ataggggaat cgaggagaaa taggaacgaa gagcgggtga 120
taaagagaaa gtactttcct ttatatgtta agagcttagc gtaatgactt tcgttatatg 180
gctagttagt tttatccggc gttatagggc ttagttcttg ttatctcggg tctaattccc 240
ttagtatgct cgggagttta acgaggtcac gggatagcgc gtaccctttc taaggttctt 300
ggaaagctat tcgttattta tcgcgattct cgaggtcgaa aggatcaagg atcttccctt 360
ttactaccct agtcgggtta gcggtcggtc aaaactagtg tagtaccttt acctcctcga 420
aagttatagt cgaaacaacg tattagtcga aattatagcg gatagatcga gacggttctt 480
tctcgggttc tcagccggta atccctctat ttgggggtct tctccctctt cccctttgtc 540
ttcgccttta gcttccaagg ttcctcggaa gcgaggggtt ctacttaagt cgntagcgtt 600
ccttataaac cncctacagg cagacccctt tgtaaacggc tcgggggt 647

```

<210> 635

<211> 645

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(645)

<223> n = A,T,C or G

<400> 635

```

ccttcggctt ggggtttttt ctgagcccc ccccccccc cccgaaactc gccttaccct 60
agatacccaa agaatagttc cactcaactt cgtctaagta aaactctaga acttccaaac 120
ataaaagact tcgcgcgggt agctacacag cctacgggaa tctcacgaat cccgattcaa 180
gtcccactct cgaccacacc ccggtatcgt cgttttccca taccaatgtc gaaaaataaa 240
ataaaatcca gtcaagcccc acggttaagc ggggtagggc taggcgaaga ggcaggaacc 300
gttcgaggcc gggggctttt aaaatacaaa acaactactt aaagtttacc ctttctaaag 360
tcgggggcaa cgggttaaagc acgcctctaa agtactactc gtttcgagaa ggggtagtca 420
tctcccgcat agagactctc gcgtatatca actcgcacgc cttctagcat tccgacggtc 480
gcccgcggct acatatcttg cggattagct ccgagggact atagggttaa ttagtctagt 540
aaattctctt agaggatagt cggggtcgta gttaggcagt acgaggggac atggnctgcg 600
tcgtgctcta ccttgacagc atactcttat aaacatcttt ttcct 645

```

<210> 636

<211> 643
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(643)
 <223> n = A,T,C or G

```
<400> 636
ccttcgggctt ggggttttttt ctgaccccccc cccccccccc cctagcggaa aacaatcccc      60
accgagatttt tattaatcgt aaaactcgcc ttcggtacca agtcttcctc cttcccgtaa      120
cctgggtcccc tcctagnngc tttacgaacg tccctcctct tcttacggct cggaagtggg      180
tacgggttaaa tccggaggng gggctaacga atccaaggct aactcctctt anagtttggt      240
gtccnncngt ttagtaagga tccgtggagg gcgagtattt gneccccggc ctttattnta      300
tagttcccta gtacgataaa gntaccggct atcctattac agcggataaa agttatttan      360
agggcgcagc tcncgcctag acaggctaca gctagnngag gtaccgcctc cgactantcc      420
gttgnttccg acaaggngt ttccggttaac tccacaaact cctccgccga ctctanggtg      480
gggacggcag ttccnncgtt tagtgtgctg tatagagaag ggcatttgag ttggacgtta      540
cnttttaaca taggttattc cgtttagggt cttgcggggc cgtgggggta gtnncccggc      600
gcgttnntat cggcgatttt ccgcagtttc cgtttccggg tnt                                     643
```

<210> 637
 <211> 631
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(631)
 <223> n = A,T,C or G

```
<400> 637
gggttntctc atttgggtgg actttttggg tcgtaggaac cggtatgnag gagtaggagt      60
cgctgggaag actagaagtt agctacggac gattagtgtg attccactct taataacgag      120
taatcgttta cgtcgggttg gtgtttcggg gttttggaga gtaagcgtag ttgtggagtt      180
tcgcatatag gtcccccttac ttcggcgatc tcgtcttctg tcggttaggt tattattggt      240
catccttcgc attagtagta gggttggctg gataaatcga tagctattct ttagaattcg      300
tagtcggaga attcgtgtac gaagtccttt aagttcttta agttcgcgag taagacgtgt      360
acggttattt tgtcgtcgac gtaggtgtcg ttacggggag ttctgtttta ggggtttaacg      420
tagaacgtta ttaagcacgg taatacgata gaggattacg cgacgtattc gtcttagaac      480
gtcgattttt cgaaggcgca tttgttatcg aaggggagtc cttggagaat cgagatattc      540
caagaatatt acggagatta cagatcggaa ggctcccag atcggacgta ttaccggtct      600
cgcccgaaac gagtaggtat cntccggata a                                     631
```

<210> 638
 <211> 606
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(606)
 <223> n = A,T,C or G

```

<400> 638
ccccccccc ctcaaccatc nattccccac ctcaacgcga attacggtt cgaaagtcga      60
caataagtcc ggtcgagtag aggggaatcag gggctggtan aaaggaccac gggcggaaaa      120
taccggtctc cttccgggga gcgacgtcgg ggaaagggaa gagagcggtc tagttcgtag      180
gcaaacaggt cagaaaagtt aagggttaaag gtcggagggg agaggatagc tagtacgctt      240
agttcggggc tcgggcgcag ggccaatttc ctcttttcgcg ttcttttact ctgcttacga      300
gttcaggctc cggagttccg cgccggaggt cgtcgcgcag ctaggaatgg ggactcgctc      360
agtccccggg tatccttcgg gattctatgt ttctgcgcg agacggagac cgggtagtag      420
ggttccgctc taccgccact cgtcgccttg atccggccc ctccgcttaa gggcgatgaa      480
agattaggtt ttagggctct acgggacgag gcattagggc ggagaagggg ggaggggctg      540
ggggtcgaag ggantaagaa atcgcantcg cgcggggctg gtagganccg aaatttttct      600
cnnctg

```

```

<210> 639
<211> 592
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(592)
<223> n = A,T,C or G

```

```

<400> 639
tcnctcggtc tgggtttttt tctgagcccc ccccccccc cccccgggaa cgagaaaaca      60
atcccaccct accgcgggga gtgggttgna cgcttagttc tagaatctc ggaatcgctc      120
tcggcggttg gtagttccgg cgattccgag tatgccgaag tgtatcgctc cgtctagagg      180
ttggtatctg tttatcgca tgacgctatt gactcggatg ctttcgaagt agggggatag      240
gcgcatagat acgcctccgc ggtgtcctct gaagtggccg catccgtgga cgcagcgtag      300
acagctctgg tggacgataa cggcttctcg tactcctact ccgctatta tgttagagag      360
gacttgtttc tgaacggata taccattagc gaaggggtac cctccgctaa cgcaggcggt      420
tctaacagtt ctccggggcg ctccgaattt agattgacgc ctccgcagca ttgtgggatc      480
ctcttcggtt agccctcttt ataggatttc tctccgccc cgaaagangg ctggtcgtcc      540
ccggcangta tgtctagctc gaacgctttg ttactccttt gttttcgaaa na      592

```

```

<210> 640
<211> 637
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(637)
<223> n = A,T,C or G

```

```

<400> 640
ctttgtggcg gtgngtgtct catttggttg gacttttttg gtcgtaggct tatccgggtn      60
gggctcccga agtagcttag gatcgccggc tagttccggt cccgcccgtc gaaagcgcgg      120
ttcggcgggc ggccccgcgt tcgttcgcgg gctttaccct catagagtgc caggtctcgg      180
ttcttacggg ttcgtcggcg atagatttta cggcgagagg tcggtatctt cgcgccttta      240
cgttcggctc gcattctacg ctagttcaca ggtagtttat gcgccggagc gcgtgacgga      300
gaggttatac gggacgcgga agaaccgcct ccaaagact agtacaggct cgttcggggc      360
tagatctcct cgctcggctc gcggttctta cttctagggc cgctctacgg ttttaaggcgg      420

```



```

tcgttagatc ttagaaacta tactcaagtt tcagtcggaa gaaaggaagt agagagaagg 480
gtaaacgatt acctccggtt ctagcccttt ttactcgcac aacgggagaa cgggggccgg 540
ctctcagata cgcctcgcga gacgtcgcga ttcaacttta acctccgcta gggcatccgt 600
atacggttaa cgcggtaaaa ggcacctcgg aaacctc 637

```

```

<210> 641
<211> 649
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(649)
<223> n = A,T,C or G

```

```

<400> 641
ctntgtggcg gtggttgtct cagtttgggt ggatttttgg gtcgtaggna acctggtatg 60
aggtctagtt tcttcaacga ttcttgggtc agttacgcga ccctatcctt atcttacaat 120
gtcttctaca tcaggttcat caattaatat atcaattaca cattaacgac ggtgtgacgc 180
aatatgagaa agtatacatt aagggtatta tatattatc gcttaaaaag gttcctgaca 240
tgggacaact tcaccaccca ttctagaagc cccccctcct gtaggacccc ctcgagttcc 300
ccattatctt agttcagttt tcatTTTTTT accaggaggg tatcggtttt taataggtac 360
tattttgtca aacttttcag aagctttatc ttcaaataa cttgcaccat ctgtactagg 420
agcactaact attcgagtct attacagctc aacagaaaat aattgaaatt aaacaaccta 480
agtatcgtcc accataaccc catcgggctc tcacccatt tcttcataag ttctagagca 540
tcctgagctc tttcctatta cccttgatgg tactcatggg ctaatacccc ccgcagttat 600
aggtccttat ggatcctatg ctaccaccgg tctaatacct tctatcacn 649

```

```

<210> 642
<211> 645
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(645)
<223> n = A,T,C or G

```

```

<400> 642
tccttcgggt tgggtttttt ttctcgcggt gttactatta tcgattgtta cttgtaaagg 60
cgatactccc accgctcacg atattagacc tgctcctcta gaagcgaacg gcgataggtc 120
tactcgcccg gcgaagacgg cgaacgggta ggaggagcca tatgcaaccc taacggagat 180
tataagtact gggaaaaata ctagtattaa ggtagcgggt taagatagggt ggagagacac 240
tattcagcag cataagcact tagaaggtct tctcgaggag aggtaggcta cggactacgt 300
tccttcttcc tctagcctcg agaggagta tagatgattc gcaaaaagaga atccctccta 360
tacgctggca taactagacg acgcgtcgtc gggaaatctc gccaaacctt ttgcgacctc 420
caaaaggaag attgtcgttt catagaacgc taatactccg ggtcttcccc aatcatagcc 480
gcataatcgg aagaagacgg taaaatcgcg cgattctaac aagattctgt agacttaagg 540
ctaagcacta gaagcgatct cgattccgga tcttaagatc atactaatag ttcggtcaca 600
ccagacgacg attagccact agaagcccta ctccgtngaa accgg 645

```

```

<210> 643
<211> 586
<212> DNA

```

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(586)

<223> n = A,T,C or G

<400> 643

```
ctttgtggcg gcggtgtctc atttgggtgg atttttgggt cgtaggaacc tggtagcag      60
ggtccgcccc gaattaaaag cgggatcccc aaaacgnngn ttcgcaagaa gagaagaatc    120
atagcgatag anctttcata gtacaaaggt aactaagagg aaaataatgc agattcagaa    180
ctagttgcca aattagaact cgattaggcc aaggatccga gcctggcgct atcacttcgg    240
gacttaagct acggtagagc agtcggtcct gaagcatagc tcccgtagga cgtaggaaac    300
tagtccggca cggaggacat actctcgagt ctcggaacgt ctatttagaa tataaacgca    360
ttaacctcag aaggcgccga cgcggttact ctctagggaa ctatttcatt ccttccggag    420
ctccccattt tttccaacac atataccggc aaaggaaaat cttntgtcct cgggtctaaag    480
agagggaaaa aaaacgatat ctaggttcgg gtttatccat ttaaaaanat ngacgcgact    540
actccctttc aaaggggagtt tccccctagg nagagttcaa cngaag                    586
```

<210> 644

<211> 646

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(646)

<223> n = A,T,C or G

<400> 644

```
ctttgtggcg gtggttgtct catttgggtg gcatttttgg gtcgtaggaa cctggtagtng      60
agggctatnt gacttggttc tcaaatacca tggtaggtg ggtggcgtgc ggggtggcgg    120
tcggttcggc gggggtgggg gtcgtcctcc aaaggagttg cttagagggt tttagtgggt    180
ttaggggcggg aagggggttag agcggagaga cgtcgtcgtg gaagcttctg gcggagcgcg    240
agaaggtagt tagcgccggt tcggaagatt ctcaagaattc gagaagaggt agtggggcgc    300
ggagagagag tttctaagtc taaacgtaga ggtcgtccta gtcgggccgg gagtagcttt    360
taagctagag gtcgaggtcc tcgtttaggc tccgggctct tcgggcagta tcctctttct    420
cgaggaacgg agcgaccgac gtcgtagccg gaccggtcta tccgtacgtt tagagatacg    480
ctcacctcca cgggcgtata tgcccgata cgtataaacg cgtaatatat tcgcgcgtaa    540
aacacgtata cactatatac acgcacgtga cggaccgtat agcgttatac gcgcgcgcat    600
attaattttc acttatatac gcgttaaacac gatatatcac acnccg                    646
```

<210> 645

<211> 654

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(654)

<223> n = A,T,C or G

<400> 645

```
ncntcgggct tgggtttttt tctgaccccc cccccccccc cccccgggtcg acaacgtgcc      60
```

```

caccgttgcc atcccagcat agctgggttcg ttctgtttta ttcttagtag tttagttcgc 120
ctatagtccc tcgtctatcg tctatcattt aaggaggcgg ggctcgctct ttagggcggg 180
tatcttaggt attcttctgg ttctggctgc cgtctcggag tctggtcctt ttgctttcct 240
ttcttggtcg aacttcgtgt ttgatcgctg tgtttctttg gggtcgtcat acctaaagggc 300
cacttcgcca acaaacaagt ttgtgtagtc gtttctatta gggttcgtcg gccggcgctc 360
ttactggttg gcgattttta acgcgttttg ttttaatttg cttcctcccc tagggctcgc 420
tcggctcttc ctctgttcgc tgcctcgtc cggccttttg tgcggggata gctccggcta 480
ttancgtgcc gtgtccgtgt ggnnttttgc caatgtgaag gcctaggggt gcgggcttct 540
ttggccatgg nttccctct tgtgancctt aggggtaacg antcgttaatt naaggtcggg 600
ggttggnata cgtnttangg gangcctgng tccgntatto cttgttttgg cctn 654

```

<210> 646

<211> 645

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(645)

<223> n = A,T,C or G

<400> 646

```

tccttcggct tgggtttttt tctgagcccc cccccccccc cccccacgcc aagtacacag 60
acccacccaaa aacaacgtca acacaacttc ggggtatacgg accttaagag agaccccgtc 120
gtagacccta ccacagccat ccaatagtca aacaacaagg gcgcacccaa tccatccata 180
gagctatcaa acaacggagg ggaaaggaaa gagcagggtc aacttagcag agatcgaagt 240
cggcactaat tccttttcaag tactcgctcg gcttgtagtt cggggtaaag tccgctctca 300
aagggccaac gaggttttaa agcgaccccc gtatcgagtc ttcttcgtat tcattaaggc 360
gttaaaggta cgagacctag aagagagtag aattagccca ccaaatcgcc taaaccggca 420
aaaacgacca aaagtcaaag acccttacia atatcacctt aaaacgccaa ccccaaaaac 480
gcgatcagta acgcacgtac ctttcccacg cttttctttc tttcactctc caaaacaaac 540
ccgaatatat agcgcaaaaa atatccgagg gagaattaga agctattacc cgaaaaaaa 600
ncgganangg antaaatngt ggggaatana cgtttggttt ttctg 645

```

<210> 647

<211> 753

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(753)

<223> n = A,T,C or G

<400> 647

```

accttacctg gtaccgggcc cccoctcgag tttttttttt tccaaataca actcagattg 60
tatacgaaaa gctgataata cattgaactt tgctgtttta atcccttgag cctttgataa 120
tgattttttt tgtgttaaca attgtagtat ataaaatcgg attcaccatc cttctgatgc 180
catattgatt agtttgattt tatgggtgat ggatcattgt gtgttaactg tattaagaag 240
aaatggattt gattgacttt gcatccattt ttatctgtgt tactttcatg ttttatttaa 300
aagcatttct ggaccagaat aagttaagtg gtataatttg ctttttacac gtttatataa 360
ttgaagttag caatgtggca aaatctctaa tggaaataaa atgcttcaga atgatgacat 420
aaatctgagc tatttcttgc ctggagaaca agtgttatct ataataattt aatagcttct 480
gaggtgtttt gttcatgtga tgaaggctta tocacctgt atcaattcat gggctctgct 540

```

```

ttgtttaatg tagtcagggtt gtttaatacna gacttaagag tcatcctact gtgataagtg      600
gtgagtgaag attacatgtc ttangaaaat tatactggga atatctctga cattaatggg      660
tttaaagtgt ttaaggctag gggatgatgc aatgganaan atncttccaa angtttctgg      720
ttgtttatat ttgnngaagn catnaagana ccg                                     753

```

```

<210> 648
<211> 383
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(383)
<223> n = A,T,C or G

```

```

<400> 648
gatatcccgg ggaaatgcgg aggcctttng gcttacgtgt ttaccgcgta gggcaaagcc      60
ttgncaaatt cccggccagc ggagcggcga ggggtggggac tcacgggaag ttaaacagcc      120
tcgtcggcgt cctcgaggct ccaaaaccag gctctaggcg gggacgactg cagccgttat      180
ggaggccacc gcggctacgg ccgcggctga ggcctcccca ggtggagcgg tggcctggag      240
gggaatcttg atcctgggcc agccacctgt caagaggagg cggagcgtca tgcctctgga      300
agactggatg aatattctcc aggagcctga cgaaggcgaa gaagtctttg cagaggaaat      360
tgaatgctgt ctgatgctac aat                                             383

```

```

<210> 649
<211> 349
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(349)
<223> n = A,T,C or G

```

```

<400> 649
cgattgtnta cnagtcttag agtaagctta agntcgttac cgagctcgga tccactagtc      60
cagtgtggtg ggaattccat tgtgttgggt cactagtaaa tggatttagc tagacanagg      120
anattttacc tattccattt agcacagtga gganaggcta nacagctagg atgcaataaa      180
aaaaatttta atgagaaatg tgtgtggtag attaattcta ttaatctcaa gttatagatt      240
aaaaatttta agtaccncat aaatgccatt tgcctttgct aangntacat ttttatgaan      300
aangaccntg catacnaat ganatactgg actttnggna cttgangga                    349

```

```

<210> 650
<211> 306
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(306)
<223> n = A,T,C or G

```

```

<400> 650
cattgtgttg ggagcatcct tccatcagct cccatgagaa attctctgtt gggtttaagc      60

```

```

aatccccaaa tatatcatat tgacatgaat atatcatctc ctcaatgtcc agcattagca 120
gacaagatga gtgctgaaga tgatataact cctacctctt atgtaggcta gaggtaaagt 180
ctggctctgc tgactgtggg gacataccga aaaggaatgt gggttaatat cagangacct 240
ccctgcagat ccganantca gggncctggac tttctgggan aggaagcnaa aagttatntc 300
tgaacc 306

```

```

<210> 651
<211> 769
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(769)
<223> n = A,T,C or G

```

```

<400> 651
cattgtgttg ggcagggtca tttctaaggc atgggctgga agcttttatt taaaacttta 60
catgtcttag aagcactctg gttgttgcta ggcagacaat tttacatctc ttgctatacc 120
agttgcatga agttcatcat gcatattggc tgtggaaaac cttaacagca tcatgtcata 180
agggttcagt aagggtttaa tgaaatcatg tattaagcac ttagtatagt gcaccttaaa 240
tgttagcttc aaaacaatga caacctaaact aatgttgaaa gaagcttggtg tttgtaaatt 300
atgtcttatt gaaagatgtc atcaaactct gttatttcta atcccttaaa gtctctcaat 360
gtattttctt ttgccatata caatgacagg accttagttt aagccagtgg ttctctcaac 420
ttctaatacca gagataacct ggtgtcccca agaccttttc agagcatcct tgatgtcaaa 480
accattttca taataatatt aaaatattat ttgctcattg tactcttatt ctctccaaa 540
tattcagcga gttttccaga agctatataa catgtggtaa catcttatca ctctgacgat 600
taatagaata tgngnttttg gattcttgng tttaaaattt tctcactttg gggttctaatt 660
atggnnacga ttaatagata tggncctccat gaccagangg ctttaaagca ntcaataatt 720
tttaagagac taagnactat ccttttaaaga tngngaactc catcttaatt 769

```

```

<210> 652
<211> 267
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

```

```

<400> 652
nnangccctt taaccattgn ggcctccacg cnntggcggc cgctctacaa ctagnnggatc 60
cgcactcta gnanaangat tggctcttnt gggntgggcc ggcgggctg gggcggttaag 120
cggggctggg cgcgcgcgcn ggttgnacna ggcgcgcgcn ccncacacn cccggagcac 180
cctcnttgcn gccntncccc gctcaccgcn cgcgcgcgcn tccgcttttt ccncacccan 240
agcncntttt atctntgtct cctccgg 267

```

```

<210> 653
<211> 501
<212> DNA
<213> Homo sapien

```

```

<220>

```

<221> misc_feature
 <222> (1)...(501)
 <223> n = A,T,C or G

```
<400> 653
cccnttnacc cattgctgga ctccaccgcg gtggcgggcg ctctanaact agtgggatcc      60
ttncnatgag atgnngcgang gaggaennat ttgctatnct ggatggggct gantcntnta      120
gctnctctag cancagatgg gttatcgagg aagatgactc caangggcta nantcctatg      180
cncatcctaa aanncanctg ctgtnttcag agtacggcgac acatcatcnc tnatgcattg      240
ntgancaaga cgggcangtg cttatcctca gcgangatgc ccttaaccan gagctcgaat      300
ggacntatca cntanaggt acanntnccg caccacacac cngcttgcn cctgacgctg      360
gactggatcn cttaggccac caatnccccg tttncacat ncctgggacn ctananatac      420
tcganggggg gcccgggtanc caatcgccc taatactgag ccttgntacg nacgctnact      480
ngngtctcta ttanaacgtt g                                     501
```

<210> 654
 <211> 710
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(710)
 <223> n = A,T,C or G

```
<400> 654
gcgnctttan cncatgctgg gctccacgcg gtggcgggcg ctctacacta gtggatccca      60
aactgagtc caccacagna aaactcanca ccaggcagac ccacaactg cagaatccag      120
gctgcaattc acagactaat cntctagacc cacctcagta ccagatggta ccacacagct      180
caaggnntta ggtttgctg gtanactcaa tctctatctt tcaccaactgc cagcctgact      240
tcagagatcc tgngctctgg acagtcctca gtggcaggca actctcagga gcctcaggnt      300
tttggcacat ccagnacca gccagctgcc acaggccctg acctntanc aacactgcc      360
atgtattcca gacttctanc ataccacagt gccatgctga ttgcatctat agangctcag      420
gtgcnctca aanctgtgcc tgctgcagna ngccccacgt ctctggcatg cccaatgcc      480
atngtggnna acanttgact tctgggcatg ntggaattcc ctaccactga noctgaccat      540
aggnggganc ccatTTTTT cgaggggggg gcccggcccc caattccncc ntatagngag      600
ncgtanttac gcgcnctta ctnggcngt ngtttaacaa cgtcnntgan ctggggaaaa      660
cccctggnng cnacccaaat taaacngcnt tgcannacat cccctttcg                                     710
```

<210> 655
 <211> 202
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(202)
 <223> n = A,T,C or G

```
<400> 655
ccccttttnc ctttcanccc cccggttttg gngccgcn acacctactn catccacca      60
cantcgacca cccgagcttt ttccgatcc cancatcnat gcngattttn tctntgcntg      120
ctgngcctgc acctttgnta ggtcaagcct ggcccattct cgacaacttc ctcatcacca      180
acgatgaggc atactctgac ga                                     202
```

<210> 656
 <211> 308
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(308)
 <223> n = A,T,C or G

```
<400> 656
gctgntgaaa gaccacaccg aaaaactctn ctttccgact tccacatgat gatcngcatg      60
tgggtggtgag agacttatca tgacgacatc gcttccnacc atcgcanccn ctgcccgaagc      120
ccattcatgg aggcttgggn anttctgtga ntgaentnga cnctanaenc tnccactgtn      180
tgctatccag acttgnttng aatatnttat tggcnaaana canttnccga atgctgtgnt      240
tgnnccattga angatctgat cactatgaga ggggtgaggac nncctgctng ctggcantnt      300
ntaaccn                                           308
```

<210> 657
 <211> 696
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(696)
 <223> n = A,T,C or G

```
<400> 657
accntttcca caatnctggn ctccccgcgg tggcgggccgc gtcgaccagc aacctcagct      60
gtgggtcttg ttacagtaat gagttactgt aaggaaaagtg tgacatttcg agcaatttga      120
tttgtttaaa aactagagca gtttcagggt tttccttgta aatctgtctt atgtgtcttc      180
aatgttcttt cttgaggagt agagaaaagga attgttagga atgatgcata aacctatggct      240
tattttatct cgctgccacc cataatcaga gcagattctt gggactatga ccctcatgga      300
gacatgacaa ttgtgtgtgt ggtgggtggg agaaaagagc tgggaatttt taggggtctag      360
agggtccaat caggactatt ttatggagct ctgctcacca actttaagtg agcaccaggg      420
gtgngaaagc gaatcttggg ntcaaaaana caatggnaag gggtaagttg gtatnctgaa      480
ctggccactt cggactctta ttttaactggg tattctcant taaggaggen nggggtggtct      540
tggcttgtna aggaaagcct gtgcaatgga atgactttaa aaccccccat taaaaaaaaa      600
angntataaa tcttgggtct taanaangaa gcctgggttc tnttanccca ttttnccccc      660
gggaaggnaa atntttcttag gnaanggaag ggaagg                                           696
```

<210> 658
 <211> 698
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(698)
 <223> n = A,T,C or G

<400> 658

```

ctggactccc cgcggtggcg gccgtcttag aactagtgga tccgtgttgg ctcaattctc      60
aaggctgttg ctgtgcggcc tgttccccac acgtgctgct cagctcaggc aagcaccgag      120
cttgtgttgt ttcatgctca gcgtggaggc ccttcctcca ggtcgctgct ctgtgggggt      180
cccatacact caggctccta ggaggagtcc atttagaaaag ccagggtttt tctcagagtc      240
ttagttcctt gtgctgtcat ccatttcaca cgacttgggc cctgctcggg gcaacacagc      300
aagagaaaag acagggaaaa taagagaggg accttgacaca cacacgctct ggaccacaga      360
gccctgtgcc cagctcctct gtcaatacac gtggaatctc gtgcaggatc gcagggggtc      420
gtgatgccac caaagagcag gccgggacag ggtaggaga gaaaggagag ggaagtgggg      480
gtttctccta cgcactctta tttgcagagg gaaaggcggg tttgtattgg ggttgcgggt      540
ctttgcaccc acngcacagt tgtgagacac ccccatcctn agatcaaagc cccacataca      600
gcttggggaa aaacaaaach aaacaaaaca aaaacagtaa acctccatgc canttgttgg      660
gnaagttttt aatttncttc ccnaccan cttgtctc      698

```

<210> 659

<211> 750

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(750)

<223> n = A,T,C or G

<400> 659

```

ncaanctggn ctccaccgcg gtggcgggcg ctctagacta gtggatcctc ctcatgggcc      60
tggatatctc tgaacatatg atgaacattg cttatgaaaa attatttgta ngaaaattgt      120
gaggcctaag aatgntatth tcttttagtg atggtctttg tttgcttctg taaggnaactt      180
gtgggcactc gtaagcttgg atctctttta tctaatacca gntttgagat tttcttggcc      240
ccatagatga attaaaaactg gcgtacttct tgtttacaag anggataagt ctctagggt      300
aagtcttttg ggggcccaag tcaaaaagat gagggattha ccagttctct aaccttggt      360
gccccagact ccaaactttg ccttctagtc ccaagaggct atcaaaaagc aaaggccatc      420
ttccaccttc ttttccanaa cagcacacat tccagacagt acttgaaagc aggaacctcc      480
ttatccctta aaaacctctt ggaancatct tccctctctt gcttctacta tgcttggccc      540
acctancatt cncntttttc tggaaaccgg aaaaancttn tgacttnngt tggctacatt      600
cagcttggcc cctacaatn tggtttccat ctgccctaan gaaattttta agggcacttt      660
tttnttggcc cctgactttc nntttttagg gctttccccc angctttgcc cctttgggta      720
aagggttat tttccttccc cttttggaag      750

```

<210> 660

<211> 849

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(849)

<223> n = A,T,C or G

<400> 660

```

tcggatccac tagtccagtg tgggtggaatt cgcgggccgc gtcgacgggc agtagtggt      60
tgcntntcta aatgttataa ttatttcaga attactctgc cagaaagtta tgatcataca      120
tagaagagtt tgtagctaac tttgaaagta gtggaaagtg gttttcatgt attgtttggg      180
ttaatttaat tttgattata tttgggtttt agttcaggta atttttttgt tgaaaacttc      240
aaatgacaat ttcttcatgg ttactaaaga tcaactcatgt ggagtagttt cagatttttt      300

```



```

tctgaataca tgtattactt ttagagatgt aaagatgtga aattactaag agagaaaccc 360
atgtgatttg tttagtggat caaaagtcgg tagctccttt gatcctaagt gccactgata 420
gttaaataga tactgaagct atgggcaggc tggattgata agaaaaaagg agacagagaa 480
atgggaaatt gggaaagaac tgtgcaaata ggaaaaggag agagcaacag aacagaatta 540
gtaccacagt gccgaagtgc cacctcaggt acttccatct cccatctcct gaagaattca 600
gtaacagttt gcaaatggtc aacacaatca tttagtgatc ctggttgata ttttcaatac 660
tttctgggga tttcttggct ggnttcaaaa gatgatgctg atagttttat tgcccctgaa 720
ggatttctga agnttancat aattttattgg tcagtaaaat atttgaataa aagngganga 780
aggaaaatct ggcntcttat tttgggatnt cngcnggggg aangaggata taattnaccc 840
cggccttgg 849

```

<210> 661

<211> 653

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(653)

<223> n = A,T,C or G

<400> 661

```

aacttaagct tggtagcgag ctcgatccc tagtccagtg tggtaggaatt cgcggccgcg 60
tcgacctcca ttggttttct gtcccttttt ttcatttttt ctcatgttct attcacttta 120
ggttttctaag ataaatatta taaaataatt tttacttata aattattcac tgataccctg 180
tctttaacat gtgaaatgaa ttcaaaaagga atcttaatga gaaataatat actcatgatg 240
tttaatagat ttgatttcga aataataagc cctctgaagt cctaagttaa aaataaagca 300
acttgtttga taatttttca tcaagaatgt atctgagtct ctgagtaatt attagtagga 360
atattccatt atcacaatta cacagtataa gctattttagt ctaactttac caaaaaaggg 420
agctacttca acactgtgtg agacttttaa tgggtttgca ttgggtatgc actattagca 480
agataaccta ttttacagca gtgtttntta acctttccca tttatttgaa aggcagctaa 540
gatatagtag ttaatntaan gggctgatgc atttatatta catgtagana atgggagata 600
cnaaaggag nggggggana tnttttgnat tcnnaagctt cnttgncaat taa 653

```

<210> 662

<211> 646

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(646)

<223> n = A,T,C or G

<400> 662

```

aaacttaagc ttggtaccog agctcgatc cctagtcag tgtggtggaa ttcgcgcccg 60
cgtcgaccga gggacaggca gccagnctg gggtcaccag ggtccctct tgggccctcc 120
aanagcaaca gtactggcaa cagctgggat ttgctgagca cagactctgc agcaggctcg 180
gttgagctct ctgtgcctgt tccttcatac catcctcacg cccatccatg agatgggtcc 240
agctgttttc agatgagaaa atggcacagg aagctggtaa gtgacagtca gaaatgaatg 300
ctggcagctt antccttgga cccaccgcag tgcaggacct tgctcaacag ggatcaccct 360
tgtccgccac ctgttcatga ggccaccag ggtttgtgtg gtcatttgc tcctttcatc 420
tgcttgccct caaccagctg ggtcattagg gctggggaac ccagaccca cacagtcctt 480
ctcccagang ccagacacan nctnccgcc agnaaggact tcagtccccg aancaaatgt 540

```

ncctgggcgt anaaactgna gggnccccaa tccctgggtgg ggtactgctt tgcactggng 600
gaattcacc ctcattgnna acctttccct nttncaccc ctaaac 646

<210> 663
<211> 650
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(650)
<223> n = A,T,C or G

<400> 663
aacttaagct tggtagccga gctcggatcc ctagtccagt gtggtggaat tcgcgggccgc 60
gtcgacgtcg acgcggcgng ccgtttcgac gcagttgata catattatta tatactacat 120
nggttttcta gaattaaaaa attaatgtgt agtgccagcc ctagatgtaa gttacatata 180
tcaactctat ccaattttgt cagccataaa acttaccttt ttcacatact tctaactcta 240
acaatgtgag aaatgtagat cattgcaatt ataccacaa ggcagatggc tacatgcaga 300
atggatagca gaatctagct acttacgcta gccacatggt agacgttttt tcctttgttt 360
ttgcaaaaatt gcaatataag ttgcatatcg ttagagtga aagatgtaaa gaacccatag 420
aagccagtga tgaaggacat ttatatatttc acctttacaa angaccttaa aattgcctat 480
gtggagcaga aactggagga gggcnaancc atcngtaaaa aaaattttgn tncattttgg 540
atgtgggcac cattattacc tccccaggtt cctttttgnt ttaacctttc ttttaaaaaa 600
aataattcnt aattttttggg caaaaaaaaa caaggttttt atttaaattt 650

<210> 664
<211> 678
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(678)
<223> n = A,T,C or G

<400> 664
taaaaaatcta gactacacta ggaaattatt ttantatcag aagaatatca ggggtgtagt 60
actcatcana gctaaatgag agcgctttta aaatgttagt ttgtcttccg ccattttctac 120
agaaagctgc aattttcaggt tttcaacctt ataggtgata ttttaagaaaa aaaaaaagca 180
atcgcaaaata gcccactgc ttttacaat cattttttct cttctaggta tagcctgtca 240
ggtggcctaa tgtaattttt gacatctcta ggaattttta tagaaccaga aatgggtgcc 300
agagatatgc ctgcactaat cttaagtggg gatttatgta tttctcaagc aagtgattaa 360
agcaaaacta ggcacgattg aaatcaanat cttttaggca agaaagtcac gatgagtttt 420
anaattattt taggactctg tggctttctc ttcatagaaa tagaaaaaaa aaattgtata 480
aaaaccacaa aaggtcctga atagcccaaa gcaacactga acaaaaangaa caaagcagga 540
agcaacacac taccggaatt caattatact accaaggtgt antaaccaaa acagcattct 600
attgggcata aaatagacca aagaccagtg ggaaacagaa taaagaancc caaaataaat 660
cctatatatta cngcccn 678

<210> 665
<211> 694
<212> DNA
<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(694)
 <223> n = A,T,C or G

<400> 665
 cttttcaa at cattttt nct cttctag gta tancctgt ca ggtggcctaa tgtaattttt 60
 gacatctcta ngaatttttaa tagaaccaga aatgggtgcc agagatatgc ctgcactaat 120
 ctttaagtggg gattttatgta tttctcaagc aagtgattaa agcaaaaacta ggcacgattg 180
 aaatcaagat ctttttaggca anaaagtc at gatgagtttt agaattattt taggactctg 240
 tggcttttctc ttcata gaaa tagaaaaaaa aattgtataa aaccacaaaa ggtcctgaat 300
 agccaaagca acactganca aaaagaacan agcaggggaag caacacacta ccngaattca 360
 aattatacta ccagggtgta gtaaccacaaa cagcatttcta ttggcataaa atagacacca 420
 agaccaatgg ancagaataa agaaccacac aaataaatcc atatatntac cgccanctga 480
 ttatcaataa cnaacaccaa gaacatatnt taagggacnt nctattcaat aantagtgtc 540
 ggnaaaaact gggaaatcca tatgcagaaa naatgaaaact agacccttat ccctcaccat 600
 acgcaaannt caacttcgga atgggattac aaaacttaag acattccaac ccaagaaact 660
 atnaaancta ctattaagaa aacagatcnc nccc 694

<210> 666
 <211> 705
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(705)
 <223> n = A,T,C or G

<400> 666
 tttaaaaatt tagatacact angaaaatta ttttagtata agaagaatat caggggggtgt 60
 agtactcatc agagctaaat gagagcgctt taaaaatgtt agtttgtctt ccgccatttc 120
 tacagaaagc tgcaatttca ggtttttcaac ctaatagggtg atattttaaga aaaaaaaaaa 180
 gcaatcgcaa atagccccac tgccttttaca aatcattttt tctcttctag gtatagcctg 240
 tcagggtggcc taatgtaatt tttgacatct ctaggaattt taatagaacc agaaatgggt 300
 gccagagata tgcctgcact aatcttaagt ggggatttat gtatttctca agcaagtgat 360
 taaagcaaaa ctaggcacga ttgaaatcaa gatcttttag gcaagaaagt catgatgagt 420
 tttanaatta ttttaggact ctgtggcttt ctcttcatag aaatagaaaa aaaaattgta 480
 taaaaccaca aaaggctctg aatagcccaa gcaacactga acaaaaagaa caaagcagga 540
 agcaacacac taccagaatt caaattatac taccaagggtg tagtaaccaa aacagcattc 600
 tattgggcnt aaaatagacc naagaccaat ggaacagaat aaagaacca aaataaatcc 660
 atattttttac agccagctna ttatcaataa aaacnccaag aacnt 705

<210> 667
 <211> 817
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(817)
 <223> n = A,T,C or G

```

<400> 667
nnangacttt tgtggtntta tacaattntt ttttctattt ctatgaagag aaagccacag      60
agtcctaaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa      120
tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt      180
agtgccaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa      240
aattacatta ggccacctga caggetatac ctagaagaga aaaaatgatt tgtaaaagca      300
gtggggctat ttgcgattgc tttttttttt tcttaaatat cacctattag gttgaaaacc      360
tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgctctc      420
atttagctct gatgagtact acacccctga tattcttctg atactaaaat aattttccta      480
gtgtagtcta aactttttta aaaagacatg taatccgcgg agtttgtaac tcaaaacgag      540
tgcacttagg aggtatcgca agcgttttct ggattaaatt cccagctagc ttgcttgctt      600
agcaggggcg ggnaaanaag acatctgcag cctagggaag aaaacctttc gcattgttct      660
tacgtgttta cgttatttta tttcctanaa caaggcngaa ttgggactcg aatggttcag      720
ttgggggtgg ggatccccgt gtncataaaa ngtcanaaag anggtacagg cggaacncca      780
agggtcgtcc tgcatttana ctcggaattt tgggtgcc      817

```

```

<210> 668
<211> 826
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(826)
<223> n = A,T,C or G

```

```

<400> 668
cgggggggnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg      60
taccattcga gtccctactc ctgccttgct ctagggaat aaaataacgt aaacacgtaa      120
gaacaatgcg aaagcgTTTT cttccctagg ctgcagattg tcttcttcac cgcccttgct      180
tagctagcta gctagctggg aatttaatcc agaaacggct tgcgatacct cctagatgca      240
ctcgTTTTga gttacaaact ccgcggatta catgtctttt taaaaaagtt tagactacac      300
tagggaaaaat tatttttagta tcagaagaat atcagggggg gtagtactca tcagagctna      360
atgagagcgc tttaaaaaat ttagtttgct ttccgccatt tctacagaaa gctgcaattt      420
caggTTTTca nctaataagg tgatatntaa gaaaaaaaaa acaatcgcan atagccact      480
gctttttaca atcatttttc tcttctaggt atagcctgtc aggtggccta atgtattttt      540
gacatctcta ggaattttta tagaccagaa atgggtgccg gagatatgcc tgcactaatc      600
ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaaactag gcacgaatga      660
aatcaagatc tttaggccag aatcatgaa nanttttana attattttan gaatctgtgg      720
cttctcttct taaaatngaa aaaaaaattg tttaaaccca naaggtctga atacccaagc      780
nccctgaacn anagaacaan gccggagcac cccctcccaa atcccc      826

```

```

<210> 669
<211> 547
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(547)
<223> n = A,T,C or G

```

```

<400> 669
cattgtgttg gggaaaaaat gatttgata agcagtgggg ctatttgca ttgctttttt      60

```

```

tttttcttaa atatcaccta ttaggttgaa aacctgaaat tgcagctttc tgtagaaatg 120
gcggaagaca aactaacatt tttaaagcgc tctcatttag ctctgatgag tactacaccc 180
ctnatattct tctgatacta aaataatttt cctagtgtag tctaaacttt tttaaaaaga 240
catgtaatcc gcggagtttag taactcaaaa cgagtgcata tnggaagtat cgcagccggt 300
nctggatnaa attcccagct tgctngcttg ctnagccggg gggcggtnaa aaaaacatct 360
gcagcccnng ggnaaaaacc ttgcgattgt tcttacgtgt ttacgttatt ttatttcctt 420
nnagcaaggc nggganttg ggactcgaaa tggtagcgtt gggctgggga tcgcccttgt 480
tacataaaag ncgtccagaa gagggacggt tacaggcnng gantccaaa ggtcagtcct 540
tgccatt 547

```

<210> 670

<211> 232

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(232)

<223> n = A,T,C or G

<400> 670

```

cgaactatth agactaccta ggaaaattat tttagtatca gaagaatata aggggtgtag 60
tactcatcag agctaaatga gagcgcttta aaaatgttag ttgtgtcttc gccatttcta 120
cagaaagctg caatttcagg ttttcaacct aataggtgat atttaanaaa aaaaaaagc 180
aatcgcaaat agccccactg cttttacaaa tcattttttc cccaacacaa tg 232

```

<210> 671

<211> 214

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(214)

<223> n = A,T,C or G

<400> 671

```

ctcccccttc ntccttcgct actnncatt ttcnnaaatt tntttcgcnt atngngaaaa 60
acaccacat tnttcanctc gcacagaaca ngngggggtg tgtaaaatga agggcttcen 120
cncctttctc tattnaanaa cactnaaana gggangggct aaaacccgcg ngatntctac 180
nctatcgcgg gcgcttttgg ngttggctag aaga 214

```

<210> 672

<211> 328

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(328)

<223> n = A,T,C or G

<400> 672

```

ngancagcgg ngtttaaagc ggccctctaga ctcgaggaga cncctgttgg atgggtggatc 60

```

```

acanntcgnt actactatac aggacagagt atcggganct cttggntggt ggngcctgcc 120
aaccactgct nctgttaact gcgtatctga agggactcgg actggcttca gaagaactac 180
cggctcgaat gnaccatgga tgattcncnc tagttgaaaa aaaactcagg cacatgtatt 240
gccactgatg actagcgcca gactnctctc ggctctntaa cgagcccaca tgnrngtgtg 300
nncnccgtgc tgnctccaga agagggttc 328

```

```

<210> 673
<211> 223
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(223)
<223> n = A,T,C or G

```

```

<400> 673
ggggggcaaag ctggctagcg tttaaactta agcttggtac cgagctcgga tcccnagac 60
attgtgcatg aaaatgcaaa ttgagtgtgg tctatantgc catontcacc tntgncngc 120
tcaaaacaac ngctttctgc tgcaatgggt agggctcctn acncacggtc gcnnacggag 180
gccncttat cctontcggt nnggatccct ngaagcatnt tct 223

```

```

<210> 674
<211> 256
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(256)
<223> n = A,T,C or G

```

```

<400> 674
gnnggggtcnt ngatgagcgc gcgtaatacn atcactntcn ggcnrgntgg gtaccggggcc 60
ccccctcnaa gcggccgccc tttttttntt ttttttcatt acatgataa ntctttnttc 120
taaacagacc acaccactan agttcctttt ctttngtacg gaattgagtt aaagtagagn 180
atacaatgca gggcttcnnc tctatttcac attccaggnt gggtcngnat ggatcggccc 240
tgcctctccg atgggt 256

```

```

<210> 675
<211> 439
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(439)
<223> n = A,T,C or G

```

```

<400> 675
nnactagtcc agtgtgggtg aattccattg tgttgggctt gtatggggtt tttgtctag 60
ttntttggga aatgttngtg ttactatntt ttggatatna tatatgatat gtatggccct 120
tctatgggct cctcanacng aactcaacca tttccacaa aaccnattcc tcctttccct 180
tcatgactga gtgggtgttg tactatccng gaaactggga cattgtcctt cacatctntc 240

```

```

cettanctgc ctngtccnat tgatgtcttt gagctntgan atgtctttgt taactntctc 300
ctnctctgt actgccggca naattaagca ccatntgtca caaaaagtat tgcgttacct 360
tcacgnatct gttngttncc atncttgctg cttctcngn ggaaaatagg ctnttctggc 420
aaccgaacng aanaaatac                                     439

```

```

<210> 676
<211> 587
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(587)
<223> n = A,T,C or G

```

```

<400> 676
ngngggcctn attaagcgcg cgtaatacna ctcactntgg ggogaattgg gtaccgggnc 60
ccctcaagt tnatntgccn aacctctctt ttggaataac aaaaggttta acacatatgt 120
cctcataggg acgcgctttc acacnttctt gacngcttca tanacntcat tntctatttct 180
cctcagnaca agttnaggcn gaaggtgagg canacnttat aatttccatt tcacaaatnc 240
ggaaagtgag gctcaaaggg nttaaaaaat aacctgatac aantcataga gccggtntct 300
ggaanaagca ggagcaaagt ccaggcatcc tgatccaagc tnggtccact gccttccact 360
ctggagaggg ttcattctccg acaaaggaag ggacntgagt ggctgganaa tctcatggga 420
taaagacctc agnatttcat gctcctggaa atcccattggg ttgaacaaca ggtntttggc 480
ccgtgggttct ntccctttgn ccattcttta accttggggg aaatgatggc ntctntnagc 540
nttttttttn aaagagatng aaattgaatg attatnngct cattggg 587

```

```

<210> 677
<211> 444
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(444)
<223> n = A,T,C or G

```

```

<400> 677
gtggggcatn attaagcgcg cgtaatacga ctcactatag gggcgaantg ggtaccgggc 60
ccccctcgaa gcggccgccc tttttttttt tttttactgt ccaaactntc tatngatnta 120
gttgaactgt ncaacgattt catgaaattc tatacacana gccttcaggt ccagagagta 180
aaacaaatth aaatttnttc accanattgn agcagncana agcatccnat natatccgac 240
tacaatgaat natatgctna nggtanctna tttaccact ntggggtctt tanggtctgt 300
cacaaactat tttcgtaaac atcnntttta anttnggtga atggacctaa tnccagataa 360
ntctatttna tntaccctag catnctgtg gctnactttn cgggctgtgt tggontactt 420
ttaggagaaa attggtataa atnn                                     444

```

```

<210> 678
<211> 670
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature

```

<223> n = A, T, C or G

actagtcacg	tgtggtgga	ttccattgtg	ttgggagcag	tttaaaaaa	aaaaagacna	60
aatatacnac	tottgatnaa	acataaaggt	acagtgggtc	atgaggaana	gaaaaggtac	120
ctnaggatgc	aaaantacct	accacatggg	aaccgttngt	ccacactcat	tcnnananaa	180
accgagtcct	ctcanttnca	cacgtgtacg	tttcagttgg	gaagtgcctg	ccattactcc	240
naagcctaga	accttcacgt	cctgaagggt	ctggaagggt	tttcagattg	cttaaganac	300
gcngcccttc	catattentc	tccactaccc	nggggaacgg	aacaaatgga	gctgcgaacg	360
ggaagcgctc	cttcccntcc	gaacgccttc	tttcaaacct	gcctgccttc	cnggcgaatg	420
gaccggaagg	tttncntngt	tcccttcanc	ccnaattact	tcctgngttg	aaaattggcc	480
tgttggtttg	caaatcngng	aatttgttta	cttctntcat	gtcctgtggt	gnncnaaccg	540
gctcctattgt	tgccctccct	tngaaagggt	ttcatcaggc	ccgcgccttt	ctcttntaan	600
ngtcctaate	cgngcnggac	cactcgggga	aaattttttc	ttttcgaaaa	gccgccccnt	660
ccgtccggtc						670

<213> Homo sapien

<223> n = A, T, C or G

actagtccag	tgtgggtggaa	ttccattgtg	tggggagtag	gtctactaca	nccactttcc	60
cctatcatan	aagancttan	caacnttcat	gatccccccc	tctannccct	tttccctcanc	120
tgcntcctag	tctgttttgt	cctnttctcta	acantcntaa	ganagatnac	taatnctact	180
atctctnacc	tccggaanct	acaanacgtc	tggaactatt	cngaccccat	gcancncat	240
ntcccatcgt	cctccagacc	cctncccttc	ctttacntta	ctnaacgaag	gtcgacgatc	300
cctcccntac	ctcccnnncc	attgggnccc	aangnactg	gacctcacga	ntacaccnac	360
tacggggnga	ctaagnctgn	aactccttac	atatntcccc	gttacccccn	gaacncagcg	420
aacngcnaca	ccttggacnt	caagaanta				449

<213> Homo sapien

<223> n = A, T, C or G

tttctngtgtg	gtggaattcg	cggccgcgctc	gacgagaaga	nggaggagga	naaggagaag	60
gagaagaagg	agaanaagg	ggagaaggag	aagaaggaga	agaaatcatc	atcatcatca	120
tccactgtct	ngcaactatt	taagtttgc	antcccttga	aaacaggtac	ttttgtttca	180
atgtttggga	ccactnctga	cnatgannag	aanaccaata	aatgcttgat	naatgaaaaa	240
nccacttttt	acctgttaga	accctgaggc	taagagaant	gatgtgactc	gacttagtta	300
ccacaaacta	tgatcctagc	atnaattggg	gcattctcaac	acctcaactc	cctgtgcaag	360


```
<210> 681
<211> 494
<212> DNA
<213> Homo sapien
```

<400>	681								
tcatggtgtc	cacagttctga	tgtgagcgca	ttaaattttaa	ggatctccgc	ccttctcctt				60
aaaactcagg	acttgccaat	gancttagga	agcgcccctc	ccctccccan	ccanatocaa				120
gccccggacc	gttgcnctc	cagctgcgcc	tagtgaaacc	gccgaattcg	aattcacact				180
cggngggccg	gcgaaggtgt	gcgcgccgc	gggagcgccg	gggnagccc	gagggaactgc				240
aagccaanaa	nggagcatg	ggtggcgggg	ggcgccgtct	gatccaggaa	ggagcggagg				300
cgccgatcac	acctcttna	gacgccttc	ccgcgccttg	ccagcgcgca	gnctgcagga				360
cgcgcggagc	aggaaactgc	tggagtgtgc	caagcccan	gnctctggaa	agtntgtagc				420
tccctttcgg	ancgnctctt	ctggcccttt	gggacgggtg	tgtcattggg	cgggggtctg				480
tataaggggg	ggac								494

```
<210> 682
<211> 263
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(263)
<223> n = A,T,C or G
```

<400>	682						
tgatcattca	agcgntgngc	gnataacgat	tgctnagccc	aacctttcat	agggtcgttc		60
ctttgggaat	nggatgtcta	ttgaatggca	gggatagggg	cactcggcat	tcgcctctgg		120
tacagttttg	catatatatc	ctcatcgcca	gcgagcgtag	gggancgtta	agtttgggga		180
aatgcncncg	catgncctcn	cggagactta	aacccccaac	aatncccat	ttnaaaaaag		240
ntttnttant	tataaaaaaaaa	aac					263

```
<210> 683
<211> 255
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(255)
<223> n = A,T,C or G
```

```

<400> 683
cttgcgccggc atgcacagac ntnttttacgg acacnctact ccaagngagc ctgnanctgt      60
ctacgggtcaa nctctaaggt tngncantgc cacanatggc atagtcccga gggcggtnan      120
tctggantgc tctctgcaact tgaacntaaa ggcgntttca aganaggnc taaatngcctgc      180
ctcttgacaa cnaacaancc cacaccnacc tangaccctn tangcaagga ctggattctg      240
naaatgcaat acaca                                     255

```

<210> 684

<211> 922

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(922)

<223> n = A,T,C or G

```

<400> 684
acccttcatt tcatgtgctt ctatttttcct acatctttta catgactaag ggattaatga      60
aatcacctct tcataatcat gaccataatt tcatccaaca agtactcaag tttgggtgta      120
gcacttttatt aatgcttacg aattctctct ctctccctct ttctcttttc cttagtcctt      180
gcacaataag gattttttgaa tgtataatat catcttaggt aagctttcat atggttttgg      240
catatgaagc ttatgactgt cataagccat accaagcctg tggagtatgg catgattttc      300
attacataat ccaatgaaaa tagacttatt ttaaaccctt aactttgtag ttttaatttg      360
tatttcacta tcttgaaatt aacagctagt acttatccat cacagcagtc tcctactgac      420
atgaagcaag ttgttgaatg cagtaganca tgaatgaaag catttaatgt tanacaaaaa      480
tgggtgatac ccaagcattc tgaattatgt gcatcaagga atgggacatg tacattagtg      540
gcatcatttc taccaatatg tgacttgaat tgttttttta aaaaaaggan aatgantttc      600
tcaatttgct ttaaaaaatt ttnaaaaagt tcaatggcat gctgctttgt ctggacttaa      660
tttattaaca attnttaanc cttccttaag gacanaatgt tgggtgttcag gatcnccttg      720
aagggtctta tttttntan nattccaaac ccaaaaagggt gttttaaagt gngnggttcc      780
ccccncaaaa atttgaccg gcttttttat atttaaaaaa nttnccnttt gngtttgaaa      840
nctnaatacc aattaagggg gaattttacc tnccagtggg aaaaaaaaac nctngccttt      900
naaaaaattc ccnggagnca at                                     922

```

<210> 685

<211> 531

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(531)

<223> n = A,T,C or G

```

<400> 685
tgaggctctg taaaactggt cctctgctag gcatacttca tattctctat attaaactca      60
tctttaattg gcatggaaga ttcatgtgtc caaatctcag atgaagatcc tatattggat      120
gcaattaagc ctggcagcgc cctcaaaaga cagtcttgct actgctagcc acagccagga      180
cacagtaaca gtctcttcta gtgaccnag accataanaa atananatct aaagaattct      240
gactccaaag gcattagccc attcctggta ttgccaatga tgatagaaaa aattgccaag      300
ctcctgggac atggaaatac actcagtaca tttgagaact ggagaactan tttccaaaat      360
agtatgaaga catganggtg attgtagata tntgagtttg gagaanttga gggaaatcng      420

```

attacacatg tttactacaa gagatgttna taagtaaaga aggcctgata tacaatctaa 480
cagacnantg agataaatct taantcacia ctgacntccc ttttggggcg g 531

<210> 686
<211> 336
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(336)
<223> n = A,T,C or G

<400> 686
ggngncctna tgagcgcgcg taatacgatc atatagggcg aattgggtac cgggcccccc 60
tcaagaacac tacaagctat gtcctcttct canagagccc tgaantttta acatattgaa 120
agctctnalc ttgccaaana actccactta acttcaaaac acaccctcca cacacatcat 180
gatcaactna gatcttactg aaccagaatc ctnaatggca tacttcagga acaggggtcc 240
anagaagcag ttctcaaant gcagctnaaa aagaaactga aaaccaatt catgcaanac 300
ctagggctta tttgagagca ttttccagtg cagatt 336

<210> 687
<211> 271
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(271)
<223> n = A,T,C or G

<400> 687
aatctgcact ggaaaatgct ctaaaataag ccctaggtct tgcattgaatt ggggttttcag 60
tttcttttta agctgcactt tgagaactgc ttctctggac ccctgttcct gaagtatgcc 120
atthagatt ctggttcagt aagatctcag ttaatcatga tgtgtgtgga ggggtgtgtt 180
tgaagttnag tggagttctt tggcaagatc agagctttca atatgttnaa acttcagggc 240
tctctgagaa gaggacatag cttgtagtgt t 271

<210> 688
<211> 740
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

<400> 688
tgatgaagcg cgcgtnttac nactcactat nggggcgaan tatgggtacc gggnccccct 60
cgaagcggcc gccctttttt tntttttttg tgagagttaa aataaaatat ttgagttaa 120
tttaaagttt gagtttaatt aaaatatatg gcatatccca agttgggctt tgcanaaaga 180
acacttctca ggaactgtta gttggtgtac caggaactca gaagggtcct gttattaaat 240
atatttgaa aatgcatgga ttctctgaan atonctctgc atgtgagcaa cacttacatc 300

```

ncaaaccaaa attggcattg catacatnaa ccaatatttc ccaaacattt ctggttatgg 360
cccccccct ttgtgtanta cttatttgctg ttttttggaa ccctggggaa attacttaaa 420
atattcagct ggaaattaca ggcgttactt ttaaggganc aagaattaca gtgactccca 480
aaattgcaag tgttgattac tatttaagaa cccaagaatt tgaaagaaat tttgaaaagt 540
gaaaacngga aatnttaaat gacttctcaa attttgaaaa ctcnngnaaa catctccact 600
ttggtnccct tcctttaaaa attggctaaa aattntttnt tatnccacc ccattggaan 660
tcccccccc ctggaacaat tggattcccc tatttcttaa aaaacggccn ccccccccg 720
ggngaacncc nacnttttgn 740

```

```

<210> 689
<211> 635
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(635)
<223> n = A,T,C or G

```

```

<400> 689
actagtccag tgtggtggaa ttccattgtg ttgggattac atatactttt agcaattttt 60
aaagaagtgt acaaagtgtg gatgtttcct gagctctcat atatctgana atgtcatttt 120
acatctccgt cttcacctct caaaacttct ttcaattctt tggctcttaa tagtaatcaa 180
cacttgcact ctggagtcac tgtaattctt gtccttttac agctacncc tttattttcca 240
gctgaatatt tttagttatt tcccagggtt ccaaaaaaca gcaataagta ctacacaaag 300
ggggtgggcc ataaccagaa atgtttggga aatactggct catgtatgca atgccaaatc 360
tggtttgcn tttantgtt gctcacatgc agagtgaatc ttcaaanaat ccatgcattt 420
tccaaatata ttttaataaca ggaaccttc tganttcctg gntacaccaa ctaacagttc 480
ctgaaaaatg ttctttctgc aaaacccaac ttggggatat gccatatatt ttaattaaac 540
tcaaacttta aattaaactn caattatttt attttaaact cctcaaaaaa aaaaaaaaaa 600
agggggggcc cttccaangg ggggnccggt tcccc 635

```

```

<210> 690
<211> 3923
<212> DNA
<213> Homo sapien

```

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<400> 690
acagaagaaa tagcaagtgc cgagaagctg gcatcagaaa aacagagggg agatttgtgt 60
ggctgcagcc gagggagacc aggaagatct gcatggtggg aaggacctga tgatacagag 120
gaattacaac acatatactt agtgtttcaa tgaacaccaa gataaataag tgaagagcta 180
gtccgctgtg agtctctca gtgacacagg gctggatcac catcgacggc actttctgag 240
tactcagtgc agcaaagaaa gactacagac atctcaatgg caggggtgag aaataagaaa 300
ggctgctgac ttaccatct gaggccacac atctgctgaa atggagataa ttaacatcac 360
tagaaacagc aagatgacaa tataatgtct aagtagtgac atgtttttgc acatttccag 420
cccctttaa tatccacaca cacaggaagc acaaaaggaa gcacagagat ccctgggaga 480
aatgcccgcc cgccatcttg ggtcatcgat gagcctcgcc ctgtgcctgg tcccgttgt 540
gaggaagga cattagaaaa tgaattgatg tgttctttaa aggatgggca ggaaaacaga 600
tcctgttgtg gatatttatt tgaacgggat tacagatttg aaatgaagtc acaaagtgag 660
cattaccaat gagaggaaaa cagaagagaa aatcttgatg gcttcacaag acatgcaaca 720
aacaaaatgg aatactgtga tgacatgagg cagccaagct ggggaggaga taaccacggg 780
gcagagggtc aggattctgg ccctgctgcc taaactgtgc gttcataacc aaatcatttc 840
atatttctaa ccctcaaaac aaagctgttg taatatctga tctctacggt tccttctggg 900
cccaacattc tccatatatc cagccacact catttttaat atttagttcc cagatctgta 960

```

ctgtgacctt	tctacactgt	agaataacat	tactcatttt	gttcaaagac	ccttcgtgtt	1020
gctgccta	atgtagctga	ctgtttttcc	taaggagtgt	tctggcccag	gggatctgtg	1080
aacaggctgg	gaagcatctc	aagatctttc	cagggttata	cttactagca	cacagcatga	1140
tcattacgga	gtgaattatc	taatcaacat	catcctcagt	gtctttgccc	atactgaaat	1200
tcatttccca	cttttgtgcc	cattctcaag	acctcaaaat	gtcattccat	taatatcaca	1260
ggattaactt	ttttttttaa	cctggaagaa	ttcaatgtta	catgcagcta	tgggaattta	1320
attacatatt	ttgtttttcca	gtgcaaagat	gactaagtec	tttatccctc	ccctttgttt	1380
gatttttttt	ccagtataaa	gttaaaatgc	ttagccttgt	actgaggctg	tatacagcac	1440
agcctctccc	catccctcca	gccttatctg	tcatcaccat	caacccctcc	cataccacct	1500
aaacaaaatc	taacttghta	ttccttgaac	atgtcaggac	atacattatt	ccttctgcct	1560
gagaagctct	tccttgtctc	ttaaatctag	aatgatgtaa	agttttgaat	aagttgacta	1620
tcttacttca	tgcaaagaag	ggacacatat	gagattcatc	atcacatgag	acagcaaata	1680
ctaaaagtg	aatttgatta	taagagttta	gataaatata	tgaaatgcaa	gagccacaga	1740
gggaatgttt	atggggcacg	tttgtaagcc	tgggatgtga	agcaaaggca	gggaacctca	1800
tagtatctta	tataatatac	ttcattttctc	tatctctatc	acaatatcca	acaagctttt	1860
cacagaattc	atgcagtgca	aatccccaaa	ggtaaccttt	atccatttca	tggtagagtgc	1920
gctttagaat	tttggcaaat	catactggtc	acttatctca	actttgagat	gtgtttgtcc	1980
ttgtagttaa	ttgaaagaaa	tagggcactc	ttgtgagcca	ctttaggggt	cactcctggc	2040
aataaagaat	ttacaaagag	ctactcagga	ccagttgita	agagctctgt	gtgtgtgtgt	2100
gtgtgtgtgt	gagtgtacat	gccaaagtgt	gcctctctct	cttgacccat	tatttcagac	2160
ttaaaacaag	catgttttca	aatggcacta	tgagctgcc	atgatgtatc	accaccatat	2220
ctcattattc	tccagtaaat	gtgataataa	tgcatctgt	taacataaaa	aaagtttgac	2280
ttcacaaaag	cagctggaaa	tggacaacca	caatatgcat	aaatctaact	cctaccatca	2340
gctacacact	gcttgacata	tattgtttaga	agcacctcgc	atttgtgggt	tctcttaagc	2400
aaaatacttg	cattaggtct	cagctggggc	tgtgcatcag	gcggtttgag	aaatattcaa	2460
ttctcagcag	aagccagaat	ttgaattccc	tcactcttta	ggaatcattt	accaggtttg	2520
gagaggattc	agacagctca	ggtgctttca	ctaagtctct	tgaactcttg	tccctctttg	2580
tgttcatgga	tagtccaata	aataatgtta	tctttgaact	gatgctcata	ggagagaata	2640
taagaactct	gagtgtatc	aacattaggg	attcaaagaa	atattagatt	taagctcaca	2700
ctgggtcaaaa	ggaaccaaga	tacaaagaac	tctgagctgt	catcgtcccc	atctctgtga	2760
gccacaacca	acagcaggac	ccaacgcgat	tctgagatcc	ttaaatcaag	gaaaccagt	2820
tcatgagttg	aattctccta	ttatggatgc	tagcttctgg	ccatctctgg	ctctcctctt	2880
gacacatatt	agcttctagc	ctttgcttcc	acgactttta	tcttttctcc	aacacatcgc	2940
ttaccaatcc	tctctctgct	ctgttgcttt	ggacttcccc	acaagaattt	caacgactct	3000
caagtctttt	cttccatccc	caccactaac	ctgaatgcct	agacccttat	ttttattaat	3060
ttccaataga	tgtgccttat	gggtatatatt	gcttttagatg	aacattagat	atttaaagct	3120
caagagggtc	aaaatccaac	tcattatctt	ctctttcttt	cacctccctg	ctcctctccc	3180
tatattactg	attgcactga	acagcatgg	ccccaatgta	gccatgcaaa	tgagaaaccc	3240
agtggctcct	tgtgtacat	gcattgcaaga	ctgctgaagc	cagaaggatg	actgattaacg	3300
cctcatgggt	ggaggggacc	actcctgggc	cttcgtgatt	gtcaggagca	agacctgaga	3360
tgtccctgc	cttcagtgtc	ctctgcatct	cccccttcta	atgaagatcc	atagaatttg	3420
ctacatttga	gaattccaat	taggaactca	catgttttat	ctgccctatc	aattttttaa	3480
acttgctgaa	aattaaagttt	tttcaaaatc	tgtccttcta	aattactttt	tcttacagt	3540
tcttggcata	ctatatcaac	tttgattctt	tgtttacaact	tttcttactc	ttttatcacc	3600
aaagtggctt	ttattctctt	tattattatt	attttctttt	actactatat	tacgttggtta	3660
ttattttggt	ctctatagta	tcaattttatt	tgatttagtt	tcaattttatt	tttattgctg	3720
acttttataa	taagtgtatc	gggggggtggg	agaacagggg	agggagagca	ttaggacaaa	3780
tacctaattgc	atgtgggact	taaaacctag	atgatgggtt	gataggtgca	gcaaaccact	3840
atggcacacg	tatacctgtg	taacaaacct	acacattctg	cacatgtatc	ccagaacgta	3900
aagtaaaatt	taaaaaaaag	tga				3923

<210> 691

<211> 882

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(882)

<223> n = A,T,C or G

<400> 691

ttactcacta	tagggctcga	gcggccgctg	aattctgctg	cagtgcgctg	tgattatgtc	60
cctgcactcc	agcctggatg	acagaacacg	atcatttctc	taaagacaaa	caaaaaacat	120
aaaataaaaac	tagtataaag	atagaagccc	aggggttgatt	taagtctgcg	gaaatcataa	180
accataggtc	agacttctca	ttgatgaggt	acttggtgggt	tagaatacaa	ttaggtatat	240
ttggtctaga	aaccaggatg	gaattagaga	ataaaagact	gagcaatagc	atgttatagt	300
attagaaata	ctatagaaat	aggaaaagcc	ctgattatga	ctttggagtt	ctgatccaac	360
atctgggatt	atttagatat	tttaaaggaa	aacgatgact	tttagctctc	aggatgttag	420
tttcctcaac	cataaaatga	agagcctcga	aaagatttcg	tttaccagat	tatttctgaa	480
gtcaattcca	gttctaaaat	tccatcactg	ngcactaagg	caaattgaat	tgaataaagt	540
attgggnatg	cataaaatac	tctattttta	aaaangaata	gtaattatcc	attggnaaca	600
gacgcantca	tccagncatc	tcctaccctg	ncccatgncn	tatgtagana	tgtanctcta	660
atcccttaac	aaaccgattt	tgcaaaggag	cttanccttg	gggtacttgg	tcanggcaac	720
tggtctactt	tnaagactca	tcttcactta	ctgggcacca	aatncctacc	attgcatcaa	780
actgggggtt	ccatncaagg	caaaccctgn	gaaatcttta	atcccgaat	tggcgcccaa	840
ttttgngggg	tttccnaaaa	gaatcntccc	ccccgagggg	cc		882

<210> 692

<211> 235

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(235)

<223> n = A,T,C or G

<400> 692

ccgcactngt	aangnccgcc	agngngctgn	aantccgctn	agcncggatc	cactagtcca	60
ttgatggtaa	aagggtagct	tactggnatg	tccgncgtct	ccanganata	atacncagga	120
cttctcanag	cacttaatat	gttaatatata	aactncgnga	aaaaagatnt	tcnatgaanc	180
nttcctctta	ggaggtcagg	ngagaatagt	gttaatgnca	ttaagganag	aacga	235

<210> 693

<211> 383

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(383)

<223> n = A,T,C or G

<400> 693

nttatgtaag	aaatgtcata	tatctttttat	tttcttttaaa	tcaaaataaaa	tatgactttg	60
agcatcccat	cccagcccc	atcctatcag	aatggtagga	acatcaacac	aaataattag	120
taatgcaccg	catctacatt	cccagctctc	ctttacttct	tcagcattgc	ctaaaggcat	180

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aatacacctt taattaatta attcagcctc ctaatgcaca ttaacaaagc ccctgctaga    240
ctctgtccat aatggnaaac ctgnatgac cttgatatta acantttaag gaatgctcat    300
ggattggttt cagacttaaa aaattgaggg ggctgaanaa aatctaangg anaaatcatg    360
gaagcatttg cacatattac ata                                           383

```

```

<210> 694
<211> 204
<212> DNA
<213> Homo sapien

```

```

<400> 694
tctcttggct ggtcagcctg aagggtggta atgactcacc aacgctacta atccttcttc    60
actgtccctt atttttttcc ctcccaggct cataactcga ggttaaactc tcttttatac    120
aagaaccctg tctgatgaag catcatttca gaattttaag tcaacttaca aatgtgggat    180
tattcacatc tgagtacaaa ttta                                           204

```

```

<210> 695
<211> 670
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(670)
<223> n = A,T,C or G

```

```

<400> 695
gcaccagccc aggtgctggt tcttcacttg agctccatga ccctccctgt gtggtggggt    60
gaacggtgac ctccaaaaga tatgtccacc tggaacctca gaataagatc ttatttggaa    120
tagtctttgt agatgtcagt aaggtaaaga tttggagatg agaccctcct ggattagggg    180
aggccctagg tccactggca ggtgtgcttc tcagggtctg aaaggggaag acagggccac    240
ccagaggagg agacggaggc agagacaggg ccaccagag gaggagacgg aggcagagac    300
agggccaccc agaggaggag acggaggcag agacaggggc caccanagg aggagacgga    360
ggcagagaca gggccaccca gaggaggaga cggaggcaga gacagggcca cccaaaggag    420
gagacggagg cagaanacag gcccccccaa agaaganacc ggaggcanaa aacagggcca    480
cccanaggag gagacggagg canaaacagg gccaccccaa aggaggagac ggaggcaaaa    540
cagggccacc caaaaggagg aagccggaag gaaaaaacag ggcccccca aaggagggaag    600
ncggagggcn aaaaanaggg ccccccccaa agngagaaaa ccnggnaggc nanaaaacn    660
ggggcccnnc                                           670

```

```

<210> 696
<211> 317
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(317)
<223> n = A,T,C or G

```

```

<400> 696
tgacccgtn tttctgcaaa ggagagtggg gaaggagggn tgggaagaca aaagttacat    60
gttagcaggg aagagaacag aattttatcc acccttatct ctttagtgag tgaacaaaca    120
gccactgtc atcgtggata catttcactt ttttcacatg actaaggagc tctccggagt    180

```

```

gaagagtgag taaatatggt tattacgcat tcatttgcta agaatcatca agaaccctaaa 240
gtagagagacg tttcgtggtt gaactttctc cctactgtct agtagaatta tatggggatt 300
ctggatctgc tggtgcc 317

```

```

<210> 697
<211> 246
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(246)
<223> n = A,T,C or G

```

```

<400> 697
ctncagctct aatcgactnc tatnaggnat gatggcncgt gcngcgcgta cgtantgctt 60
ggatcctcnn anagcggacg cctactacta ctaaattcgc gcngcgcgttg actttttttg 120
tttttttctt tnacagagnt ntttttgtgc ccttggttct tatgctcana ctngcaaaa 180
aanatcaaaa gntacnnatg aaaaacntat nccatctnca naaaggaggt gnagntatta 240
ctttct 246

```

```

<210> 698
<211> 3674
<212> DNA
<213> Homo sapien

```

```

<400> 698
agaaagtttc cttttttttt tttaatggtg aaaagatata cacatatatta gaattagcca 60
gctgggctca gtttagatta ttccaatttt gttggcaaca tccagagcat cgtaatcagg 120
agccagtcaa acatattcct tcttctctcc atcaggccaa atcacggtgt tgaccttggc 180
cacatcaatg tcttagaact tcttcacagc ctgtttgatc tggtgcttgt tggctttaac 240
atccacaatg aacacaagtg tgttggtgtc ttctatcttc ttctgtgtga ctcagtggtc 300
agcggaaact tgatgatagc gtagtgggtc agcttgatc tcctgggagc gctcttccaa 360
agatatttgg gctgcctcgg gagttgcagc gtcttgggcc gccggaaggt gggtgacgta 420
cggatcttct ttttttgtgt ggctgtggac acctttcaac actgtcttct tggcctttaa 480
atccttcgct ttggtttcgg ctataggagg ggcaggagct tccttcttca ctttcggcgc 540
catcttgta aaagggaaag tttcctttct aataccattt tcacttctcc cgaattttgt 600
ggatcgtttc ttggtatcta ccccagattt caggagtgtt ggctggatct tagggattgt 660
gaagtcttca tttccctgtg gtgagatctg aggcattgatt ttaaacagtg tgagggaagg 720
agatctccag gcactttaat agaatggaga agcaggatgg gatttgagag gaaatctgat 780
tttgaaaaaa ggagaactag agttgagttc gtaattaact agcaccttaa aggtcattca 840
gcatgcccat ctgcacagtg ggtgtaatca ccctacagaa caaaaacaaa aaggcaatgg 900
agaggaagct gtaaagcact gtacatgttt aactcattgt tatgtaagct agccgaaggc 960
ttcacagact tgaattcatc tcccaagttc tcttctgtga ctggaaactc tgccttaggt 1020
tgcttaaaac ttgagaaaca gaataattgt tcccctgcct gccttcttga gtacacttgc 1080
ctacacaaag atgcacatcc ttgtttgtgt gtgtgtgtcc atttgctgtg acattcttgt 1140
gaaagtcaaa gtttcccagc tgttgacata cacaagtttg tttggtgcaa cctgtcagat 1200
gcatccctta gacaggccct ttgatactct gggaaagaca ttggacttac agtcggaacg 1260
aaaagaaaga aatgtgatat gtatagcgtg cagtgaagttg gagttttacc tgtattgttt 1320
taattttcaac aagcctgagg actagccaca aatgtaccca gtttacaaat gaggaacag 1380
gtgcaaaaag gttgttacct gtcaaaggtc gtatgtggca gagccaagat ttgagcccag 1440
ttatgtctga tgaacttagc ctatgctctt taaacttctg aatgctgacc attgaggata 1500
tctaaactta gatcaattgc attttcctc caagactatt tacttatcaa tacaataata 1560
ccacctttac caatctattg ttttgatacg agactcaaat atgccagata tatgtaaaag 1620

```



```

caacctacaa gctctctaata catgctcacc taaaagattc ccgggatcta ataggctcaa 1680
agaaacttct tctagaaata taaaagagaa aattggatta tgcaaaaatt cattattaat 1740
ttttttcatt catcctttta ttcagcaaac atttatctgt tgttgacttt atgcagtatg 1800
gccttttaag gattggggga caggtgaaga acgggggtgc agaatgcac ctcctactaa 1860
tgaggtcagt acacatttgc attttaaaat gccctgtcca gctgggcatg gtggatcatg 1920
cctgtaatct caacatttga aggccaaggc aggaggattg cttcagccca ggagttcaag 1980
accagcctgg gcaacataga aagaccccat ctctcaatca atcaatcaat gccctgtctt 2040
tgaaaaataa actctttaag aaaggtttaa tgggcagggt gtggtagctc atgcctataa 2100
tacagcactt tgggaggctg aggcaggagg atcactttag ccagaagtt caagaccagc 2160
ctgggcaaca agtgacacct catctcaatt ttttaataaa atgaatacat acataaggaa 2220
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cagctgctca ggtggctgca aatcattaca gccttcaccc tggggaggaa ctgggggcct 3360
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taaattcaat gcgcccttgt atcccttttt cttttttatc tgtctacatc tataatcact 3600
atgcatacta gtctttgtta gtgtttctat tcmacttaat agagatatgt tatacttaaa 3660
aaaaaaaaaa aaaa 3674

```

```

<210> 699
<211> 2051
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(2051)
<223> n = A,T,C or G

```

```

<400> 699
ggaccagggg ctgaagtga cccccagcac agcacagctg ctctataaaa acgtggccag 60
actttttttt ttgaagcaag tcctgttct tgttcgtcct gactagtccc atcagggcc 120
tggatcccaa gactcagcat ccaaggtccc ctccaggaa cctggcagct cagcatactt 180
tatcctgttt catctgagag caaaaatgta aaattggatg cacagaaaag tgactcaaag 240
tgcttaatga ctagaagaaa tctaggagca gcaagaagag caggacaaac aggccaggcg 300
gtgtcaggag ccaggtctc cagctggang gaacgtcaac cctgcagtggt gagcaggggc 360
cctttgcaca tcctaggcac agatggtaat gtagacacca caggttaagct gggcttggtta 420

```

```

cctacccctc cccggattca gaaagaaacc aaacaaggag ctttgtgtgg aatgaaacct 480
cctttcctcc cagaagcact gctgactgtt tgggtggtgc catttgtggc agtgagccct 540
tgtttgttct gaggttgggc tggtttctcc tcttggccct gccctacaga tcataaagga 600
gaacagcaag acgtccccag caaacatcca cagatggcct tggaaataag tcaccttctt 660
caccctgcag gaatgccagt gaacatattg ctgacatctt ggagctcagt acctcatagt 720
gtaacggcgt cagtagatct gcctgtgctg ggacttctct tactacccat tcctgagggg 780
cgatgcttct gcagggcctg tgacttggtg cacaacttca gacaccatca tcttgagca 840
gcaccgcacc ctactagcc aggggtgttg tgacttctc aaggccaagg ccacattcaa 900
ggcttcggac ttcatgtatg cgttgtgtg gagcaagggt gcttctccgg gatcttaatt 960
caggaggtag aatggagctt gagatcaagt gtctgatcaa gcctcagtgt atgggcgctg 1020
ttcatcctct ggtgctgaag cagccaagag acccaagtct gcctggctgc ctcttaggat 1080
atgacagcag agccagtggc ctctactaga tctgtacaa cctcacaaaa caccagaca 1140
tcgggagtgc tgccagcctg tgatgcaaga gtcctaattc tgaagacatt gaatgacctg 1200
tcgttgtgct gtttttacca aaaaggatca tgaggatcag agaggaaaag tcacttgccc 1260
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aggtgtatgc ttgcttctct cccaagagac tcttttctta tcaggctcaa atgaatgaaa 1380
ggaggatgtt aaagacaacg ccattattga cgagatcact cccaagcgga ttggagattg 1440
tccaatatt tagacctata gcaaggcctt gggagaaatg gtggtgcagc aggagagcag 1500
gaacctaac attgccatcc taaggccctc cattgtgtgg agcaacgtgg caccagcttt 1560
tcctgggttg ggttgataat ctaaatggat gtagccgact cattattgcg gtatgtatag 1620
ggatgaagaa gtaactgtaa tgtagtggag gaatagtaag aaaattctta gtgctggctt 1680
agcttaattg atccaaaaac ataaatgcta ctttactatc aattgaagca tattatttca 1740
attattctgg ttataatatg gaggcaggat gaaattgttt ttattctttt agaattttt 1800
tttatcagga aaacagaggt aaagtgtctat caattactat ttaagagttc tattttgaaa 1860
agtgagaatt aaggattttt cttttctttt taaaaaaaac ttttttaaaa attaaaaata 1920
aaagaagcaa aagtcttagg aaaatgaagc aagtagccct gccactctat gtacagtaat 1980
aacaatatct gtcccagtta ttatgtacaa tattataaaa aatgtcgcag acagtaaaaa 2040
aaaaaaaaaa a 2051

```

<210> 700

<211> 2841

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(2841)

<223> n = A,T,C or G

<400> 700

```

gcagagcaca gcatagctgc tttaccaaat catggccaga ctgcttctgt aagcaggccc 60
ctgatcctgt tccacctcac tggacaggac ctcccaactg gggcctccag ctacccccac 120
cagcatccct tggccaatgg aaatttgaaa tgttcctggg acagagctcc tggagagagg 180
ggcaggccac cacctttgct gtttgggtga ctagccgttc tggcctgcag gctttggaga 240
gccaagctg acaaggggta gaagagggtc ctacgcacag cacagccacg ctacgaaaac 300
atggccagac tcttgtttta gtcagtcctc gaacacattt ctagtcaagt ggtgaagtct 360
ttcaaccagg gtctctggct accttgactg ctgttctctg gccgacagag gtctcaggcc 420
tccctgagtc agagctcccg gggggaggac cagattgtca tctttgctgt ttgggtgacc 480
cagccatttc agccttaggg cttcagagtg tctgaggtag ccaggggctg aagtgaacct 540
ccagcacagc acagctgctg tataaaaaac tggccagact ttttctttaa gcaagtcctt 600
gttcttattc ctctgacta ggtaagactt ctcaacttgc ctccagccac atcttattgg 660
tgtgttcaga ttggcaacag gtttgtacct cagtggtaga gagctcccag aggaaggggt 720
aggctatcat cttccctgga aaatacgagt caattaggga cttgagggga ccccagcat 780
tccacagcag cccttcagaa aagtggccag actctgtact tgatgggcag atcctcctgg 840

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cctgtgtctc tagccagccc accactggag ctatcaagcc agtagcaact cagcagttcc 900
ttggacagag cttccaggag caaatgaaat cttttctgcc actgcctttg cagtgaactg 960
cccttgctat cctcagaaga tatatcacgg gagcaaagac cctaagtgcc atatcaacac 1020
ctccaataag ctgcagttga cccaaagaac aagccaatcc atctcccaca ggttccacac 1080
acactccact actcatcacc agacagggaa ccctggcttg ggcccacagc acagaccctc 1140
catcctgggc cgattacact gagtgattgc taactcacat gtctctggga tggagcacc 1200
aggagacaag caaagtgggtg gagcagcaag tcaggtgatg tggagcccag agggcaggga 1260
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cccataccat agttttctgtg ctagtggacc gtaccatata agtggagagc tgcagcaagg 1440
tggcccntac ggccacgcac cagcctgcac attacctctc catactgcag ccttttatat 1500
ggaaacttcc tacatcactt tgctgtgtgt gtttacacag gtggattttg ctttacttgc 1560
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taagatcctt ttcagacaag caaatgctga gggaattcaa tatcaccaga tctaccttac 1740
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aatgcagtga agaacgcagt gaattacgca gtccagtgat gctaaaaacc aaccacatac 1860
gttaagtctg caaaataacc agctgacagc atgacgacag gataaatcca cacataccat 1920
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taaagaacca agaccactg gagtatgctg tcttcaagaa acccatctca catgcggtgg 2040
catacatagg ctcaaaaataa aggaatggag aaaaatatat caagcaaata gaaaacagaa 2100
aaaagcaggt gttgcactcc tactttctga caaacagac tatgcgaata aagataaaaa 2160
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ctgggctggt ttaattgccc aaanccaata ggataatttg ctgaggttgt ggagcttctc 2280
ccctgcagag agtccctgat ctcccaaaat ttggttgaga tgtaagggtg attttgctgt 2340
acaactcctt ttctgaagtt ttactcattt ccaaaaagga aggcaagttt tctgcttcc 2400
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tgagtgtaaag ttttttccag cttctaagat ggcagagaac gatcaccagc ctgagcctta 2520
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gtaagattac ccaccagctg cttttaattt ctcccttagc attagaacac tcagtaatca 2640
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tattgttggt gtttcacttt tctcccatct ctctctgact tgggtcaaata caaagggaatg 2760
ttcgaaattg tggggagcaa ggcactgtaa atggctaaaa ctctgtggc tgcaaaaaat 2820
agaaataaaa aaaaaaaaaa a 2841

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<210> 701

<211> 3228

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(3228)

<223> n = A,T,C or G

<400> 701

```

tccgccccat tgacgcaaata ggcggtaggc gtgtacggtg ggaggtctat ataagcagag 60
ctctcnggct aactagagaa cccactgctt actggcttat cgaaattaat acgactcact 120
ataggagagac ccaagctggc tagcgtttaa acttaagctt ggtaccgagc tcggatccac 180
tagtccagtg tgggtggaatt ccattgtgtt gggcaggaaa caagcaaagt ggtggagcag 240
caagtcaggt gatgtggagc ccagaggtca gggatggctg tctctctagg gtccacttgc 300
ccttggtgaga cactttatcc cagcacttta ggaatactga ggtcatacca gccacatctt 360
atatgcaaga ttgccagca gagatcaggt ccgagagttc cttttttaaa aaaaggagac 420
ttgcttaata aaagaagtct agccacgttt gtgtagagcg gctgtgctgt gctgggggtt 480

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cacttttgag	agagttctcc	tctgagacct	gatctctgga	ggctgggcaa	tcttgcaactt	540
gagatggggc	tggtctgata	tcagcaactcc	ttagtctgct	cgcctctccc	atggccccag	600
cctggccaca	cctgcttacg	gggcactctt	agatgcccac	accataactt	ccatgctagt	660
ggactgtacc	atatcagtg	agagctgcag	caaggtggcc	cctagagcca	cgcaccagcc	720
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gctgagggaa	tttggtatca	ccagatctac	cttacgagag	ctcctgaagg	aagcactaaa	1020
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ttgctgaggt	tgtggagctt	ctccccttca	cagagtccct	gatctccgaa	aatttgggtg	1560
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cagcagagcc	agtggcctct	actagatcct	gtacaacctc	acaaaacacc	cagacatcgg	2460
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<210> 706
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 706
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 5 10 15
 Ser Leu Val Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val
 20 25 30
 Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys
 35 40 45
 Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu Thr Gly
 50 55 60
 Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala Ser Leu
 65 70 75 80
 Tyr His Arg Glu Lys Gln Val Leu Ile Gly Gln Trp Val Glu Ser Gly
 85 90 95
 Trp Glu Gly Trp Ser Gly Phe Leu Gly Gly Gln Leu Ala Gln Asn Leu
 100 105 110
 Val Ser Gly Lys Gln Leu Trp Arg Met Leu Leu
 115 120

<210> 707
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 707

Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala
 5 10 15

Gln Leu Leu Leu Val Asn Leu Leu Thr Phe Gly Leu Glu Val Cys Leu
 20 25 30

Ala Ala Gly Ile Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val
 35 40 45

Glu Glu Lys Phe Met Thr Met Val Leu Gly Glu Ser Leu His Pro Pro
 50 55 60

Ser Phe Leu Phe Gln Ile His Ala Thr Trp His Val Gly Gln Glu Tyr
 65 70 75 80

Leu Cys Pro Gly Ser Cys Leu Glu Gly Glu Val Val Cys Trp Glu Gly
 85 90 95

Ile Ala Gly Gln Glu Gly Asp Pro Gly Leu Arg Gly His Thr Lys Arg
 100 105 110

Lys Lys Arg Ile Pro Arg Thr Tyr Pro Ser His Leu Trp Ile Pro Gly
 115 120 125

Pro Ala Gln Ser Leu Ala His Arg Arg His Trp Arg Asn Ala Pro Asn
 130 135 140

Leu Trp Leu Ala Leu Leu
 145 150

<210> 708

<211> 371

<212> PRT

<213> Homo sapiens

<400> 708

Met Leu Phe Pro Ser Phe Ser Arg Ser Leu Val Pro Leu Pro Leu Ala
 5 10 15

Leu Tyr Leu Ser Gln Pro Leu Thr His Thr Thr Ser Leu Leu Ala Gly
 20 25 30

Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala
 35 40 45

Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp
 50 55 60

Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala
 65 70 75 80

Gly Trp Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu

Ala Pro Val

370

<210> 709
 <211> 141
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(141)
 <223> n=A,T,C or G

<400> 709
 tacggcgtgg tgcggagggc ggtacccac aaataacacn nacaccccat cctatctgtg 60
 tccacanata aantgactca ttctctctct cgcatanccc actntcccct ngcgataccg 120
 taacnaancc cttccccctt t 141

<210> 710
 <211> 196
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(196)
 <223> n=A,T,C or G

<400> 710
 cnatccttcn cntacaccca tgangtccat gtgcacgtc cacctcccct caaaacttgg 60
 gtcncatcc acccgctact ctcccntaa ncnataaccc cttttngcga atagacccca 120
 ccttancaat nggtttttcn tttttgtcc ctnggnccgn gcgattcaan aaattgaagg 180
 cccanaaaaa ccccct 196

<210> 711
 <211> 177
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(177)
 <223> n=A,T,C or G

<400> 711
 ntacntcnct ccnaatgaaa ttogaanctc ggttaccggg gggnattccg attaggngcg 60
 tantctcgga tgtgcagtca caagtctttt gctaatnctt ataattntcn ctaccctttc 120
 ttcnacaata ctgtatctct anttnttctn tencctctct cccannttac taaccac 177

<210> 712
 <211> 185
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(185)
 <223> n=A,T,C or G

<400> 712
 aaacgnacca nngccaacga tangtggttg ngttggttgc ggttggttcct cttatntgca 60
 ctggttggtcc gtgtgcacg ganggccacg tccctctgnc ntgagtanca catagcatcc 120
 acgttttagtc gactntnccg ggcggccgct ctacctntnt atngattcct attaaaaantc 180
 ggatc 185

<210> 713
 <211> 172
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(172)
 <223> n=A,T,C or G

<400> 713
 nntgggtgcc tgngcgtnta ctctaaagga tntactatnc atatggantc naanacgact 60
 cactacacgg cncctcncgg agccnnggtc agtgcctnct nggagacctt ctctggggca 120
 ggangagcac tnggtatgtt cacgtatcnc ttentaaana tacnncctc cg 172

<210> 714
 <211> 112
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(714)
 <223> n=A,T,C or G

<400> 714
 nttgcgtgcc tggacgtnta ctctgcanga tctactactc atngaatc taantacgga 60
 ctactatnc ggcancgcag gcgcagcagg gaanggggtca cctcccagtc tc 112

<210> 715
 <211> 326
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(326)
 <223> n=A,T,C or G

<400> 715
 tactctanag gatctncgng tcatntggat tctatntcga ctcaactctag ggctcnagen 60
 gtcngccggg caagttattc ggatcgctcg gntccgagct tcgcaattaa ntgtgccatc 120
 gttctncaac gttcctgact nggaancccc ngcngttcng atccnnggt acctagctcc 180

```

anntcccccg tntcctttct ggngtntcat naangaggac cncctcgat cnccttcct 240
taatctgcnc acnctgaacg nccaatggac atngtgcgtt taatntanna ggcccgnttc 300
gngtgccttt cccgtnannt cagctc                                     326

```

```

<210> 716
<211> 122
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(122)
<223> n=A,T,C or G

```

```

<400> 716
nntgcgtcgc ctgngcgtnt actctagatg atctgantag tcatatggat tctaatacga 60
ctcannatag ggctctagcg nggatncnga ttgctntcc ngattcantg acnccggtan 120
ca                                     122

```

```

<210> 717
<211> 203
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(203)
<223> n=A,T,C or G

```

```

<400> 717
cntgcatgcc tgcaggtcga ctctagagga tctactagtc atatggatcg agcggccgcc 60
cgggcagggtg tnaatgataa anatgcatca tactanccta cagaanggag agataatgtt 120
ngntggacca ngttggtttt cttgcgtgtg tgtggcagta gtaagttatt agtttttana 180
atcantaccg ccctccgcac cac                                     203

```

```

<210> 718
<211> 168
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(168)
<223> n=A,T,C or G

```

```

<400> 718
ggcagganga tcncttgagc ccngaggtc gaggctacag tgagccanga gtgcactact 60
gtnnccgcoct ccgcatncac gngtgggtccg atccccgggt accganctng anttcactgg 120
antttttttt aancgtnttg antggtacna ccctcgantc cctggctg          168

```

```

<210> 719
<211> 210
<212> DNA
<213> Homo sapiens

```


<220>
 <221> misc_feature
 <222> (1)...(210)
 <223> n=A,T,C or G

<400> 719
 cancgctcgc ataacacgta ttttntgatn aagattctna ctgacccatn aantctacnt 60
 ctcaagctct tncanngtcc agtnaangga atgtgtatnn gtnggggatnc cacanaaaaa 120
 aganatntcg gncgcttcat tantcatcct tcttaccan ntctctngat nncagtntg 180
 ancntgaacg cacactacng gatntctcca 210

<210> 720
 <211> 131
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(131)
 <223> n=A,T,C or G

<400> 720
 tccatcctaa tacgactcac tatagggctg ccaacctgcc atccactact gaggaagacc 60
 cgnanactta ggggctcact gcgagccacc ggccacaggt cgtatagggc aaagcacgng 120
 gaagaccccc t 131

<210> 721
 <211> 121
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(121)
 <223> n=A,T,C or G

<400> 721
 tccatcctaa tacgactcac tatagggccg ntgantnctg gcgaaaggct tacaattaag 60
 naggaanaan ganccaacaa ctaaaaaaaaa nncggncgtg ncagcttinga tgactngtcc 120
 a 121

<210> 722
 <211> 246
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(246)
 <223> n=A,T,C or G

<400> 722
 anctggagtc gcgcgctgca gtcacattgt ggatccanaa aatcggcaca agctctcntg 60

```

gnttcntoga tatgaanaac actaatccca tgtngtntgn gtctccgtga ttcattccctc 120
gcacnggtcc ccntccnaac cnttgcatag gtgttatgtt gtantctccc cagtgcacaa 180
agattnacac tctctcantg tctganatat gcacgagttc attgtcctgt cnccgtnaac 240
atcaag                                         246

```

```

<210> 723
<211> 160
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(160)
<223> n=A,T,C or G

```

```

<400> 723
cctccggaaa atccaantag agtaantncn ctctaattccg gggnaattgg nggggttnnat 60
acgtctctct cccccagnt aggattnana aaaggntcc cagancaaaa nctccaaagt 120
gnatcnanta gccgtncctg anatincaacg cccctacgtc 160

```

```

<210> 724
<211> 156
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(156)
<223> n=A,T,C or G

```

```

<400> 724
tnanccnata tacaccaaatt tctgattcta aantcccacc caagggaaaa aagttgagaa 60
gagcctttcc acttttctac taataaaaaa atgcaccagc ccctaccann agtgnggaaa 120
acctccttag gcccttgntt ggaacaancg aaaatc 156

```

```

<210> 725
<211> 347
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(347)
<223> n=A,T,C or G

```

```

<400> 725
aganggttnt atncatgctg tactcgcgcg cctgcagtcg aactagtgg atccaaagaa 60
ttcggcacga gagacggtgc gcgatggacc gagggcccca gccgnggagg cgccgccgcc 120
gagcccgccg ncagacgccc catcagtagc gtccgcaccg ggnagccgcg gntctcgccc 180
gagccgtggg cgcgcccagag gggcgggctc gcctcccgcc gtccctcgca gctctgccgg 240
gcccgagccc gcgcgctcgc cgccgccgnc ttgcgcctcg gnccgcgcgg nccggnaaac 300
gcggtcgagg tctggatgng gcanngccg cncctntcgc tgagcct 347

```

```

<210> 726

```

<211> 162
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(162)
 <223> n=A,T,C or G

<400> 726
 ttgggtgggt tgggtggggg naaatttncc catttgggtg ggtttggggg ggnaaatact 60
 tcccgcccttt tnggtnccca aaganacnaa gggggagtcc cttnatagag gnagngcgat 120
 ncntcncaac nacntngact ttgnccatgg ggagnaaggt gg 162

<210> 727
 <211> 120
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(120)
 <223> n=A,T,C or G

<400> 727
 gtgtgggtgg ggaattccat tgtggttggg ggnaaatctc cgcttgtcca aagnacaggg 60
 ggggtcnctt anagngnagg gggttcctcc ccaccacttg ncttgnccat tgngagnaag 120

<210> 728
 <211> 130
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(130)
 <223> n=A,T,C or G

<400> 728
 gacccactgc agcgtnaac ttagcttga ccgagctcgg atccctagtc cgtgtggtgg 60
 aattccatgt gtcgagagag gggcaaatac nctccaanac ancncctca tgctcnacac 120
 atattcgcat 130

<210> 729
 <211> 182
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(182)
 <223> n=A,T,C or G

<400> 729

```

cngactgctn gcgtttaaac ttaagcnagg taccgaacgg ggatnnacga ctantgatcg 60
gctggctgct tccagtcgat tanatttgtg aaaaagctga accncngccn gttaaggggg 120
annatgcaaa anatncatcc nntcgcccn taaactgntc tntccnaggg aaaaaangga 180
ag                                                    182

```

```

<210> 730
<211> 678
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(678)
<223> n=A,T,C or G

```

```

<400> 730
cactcncact ccggacctag gencttcacc actgctctct tctctctcct cctcctcntc 60
ctcggggctg ggggaccttc cccagtgaac atctcacttt ggctgaancc cactcggggc 120
agcctgagtt tggggctctt ggctttctca cctcctcgg cccctcctt ggcccgacc 180
aggccaaacc ggggcagccg taccttgagc ttgtgtccgg cctctccctc cccctctgcc 240
acctggtact cggcatggtt gcccccgga tggcgagagc tccacgtcgg gcagtgaagaa 300
gcagaaagta cgctcggccc ctgggggctg ctccctcagca cctcgcgcc ccaccctagc 360
tctggccccc agtgtgggca acttcagcct cagccacccc tcgcctgtgg ccgcctcgcc 420
cgctgtgccc tctcggctta gccccacgtc caactcaagc tggggcactg tcacggtggg 480
catcttaag acaccctcac ccaccagcag ctaccacct gcaacctggg ctccaggcaa 540
aaaaagggtc acctggggca nctgaaccct gtacctgctg tgccctctgc tgaanggaat 600
gttatctgaa cctgctgccc tgggggtact gccttcccaa aaccgggtca antccacctg 660
ttggaaggna aatncccc                                                    678

```

```

<210> 731
<211> 135
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(135)
<223> n=A,T,C or G

```

```

<400> 731
gagatccgac gtcaccccct tccggcggcc caagacgctg caactcccga ggcngcccaa 60
atatcttttg aagagcgctc ccagcccaac acaatggaat tccaccacac tggnttagtg 120
gatccgagct aagcc                                                    135

```

```

<210> 732
<211> 660
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(660)
<223> n=A,T,C or G

```

<400> 732

```

gcttggtagc gagctnggat ccctagtaac ggccgccagt gtgctggaat tcggctttct 60
tcaatcagnt nacgagctgc atggctctgct aacattgtca taattgctgg catagattac 120
tgaaaaataaa gaaaaaaaat tgaagctgcc tatcaagttt tggattatc aaaaacttcc 180
tacaagttat tttacttcaa ccatgttatt acaaattttt taatgaatac tttagagact 240
ttaattacaa aaaactgaga tagtaaaagc aagtaataaa agctgaaatt acttagctat 300
ttgataatta cataaattat tatgggtccat tcaacttttc tagtgtttag tttatacacc 360
aggaagactt tcctattcta ctaacattta taaagtatgc taacctatta tttaaacgca 420
tccactatta ggattttatg gcctaaaacg tgatacagtt cagtatcttg atgtcaaaac 480
tttttaagca agtagggatt aagttcaagt gaatgtgatt ttctttcttc ccagtagggg 540
cttctgaata actcagnaaa gctcacttcc attatcttac tttataaaaa aatgctataa 600
gacagaatgg gccgacgtgg nggctccacc tgtatccacc tttggaggcg agnggcgaat 660

```

<210> 733

<211> 836

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(836)

<223> n=A,T,C or G

<400> 733

```

aattaatgac tttttttccg ccctgccaaag ctagtttgct taaatataat gtaaagaaat 60
tagctactca ttttctggct cacgaagggt cctaaaatgg gaagaagtgg agatctgacc 120
ttgttagttc taaatacact aaactgggag tgccatggat ggctttcagg atgtcctgaa 180
tcctctataa ttgtatacaa aatcgtgagt ttttaaaaaa tgggttagag ctattgggtc 240
ctcagagtct caggcatctt agaccccaa aaagggttaag gactactgac ttaaccaatt 300
aggtttgagt ggcatggct ttgaagaaaa gcagaggaaa gatataatctt ataattctgg 360
gcaacaaaaa agtgtagtg tgccagcatc ttagagtaga atcctcttaa aaggatagca 420
ctgcatatga actagtaggt ttttaaccagt gcatatcttag gcgaagtagc tcatttttct 480
gttagaattc ttttttatct gggaatgggc aagcttttac agcttttacc ttgccaatga 540
atacctggaa ttttaaaaaa cttgttaggc atattgccca taaagttttt tttcctagat 600
catatattca gtaaataatg ttgtagcttt atttcaatcc cccaattcat tgagggttga 660
aacaatttga atggtttgag tgtagaagct aagttatttc tgtagaggct aagggcattt 720
ataccaanat atggttagact tgnngntcct gtaaacatg ctgtanacaa taggaattac 780
tgtatatcca cattttaatt ttaacatctt ctgctttgnt gntgggttga gangga 836

```

<210> 734

<211> 694

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(694)

<223> n=A,T,C or G

<400> 734

```

nagtnctatt tncactaaac tgnagagtgc ttggatggct ttcaggatgt cctgaatcct 60
ctataattgt atacaaaatc gtgagttttt aaaaactggg ttagagctat tggttcctca 120
gagtctcagg catcttagac ccccaaaaag gttaaggact actgacttaa ccaattagg 180
ttgagtggca ttggctttga agaaaagcag aggaaagata tattttataa ttctgggcaa 240

```

```

caaaaaagtg gatgtgtgcc agcatcttag agtagaatcc tcttaaaagg atagcactgc 300
atatgaacta gtaggtttta accagtgcac atttaggcga agtagctcat ttttctgtta 360
gaattctttt ttatttgga atgggcaagc ttttacagct tttacottgc caatgaatac 420
ctggaattta aaaaatcttg ttaggcatac tgcccataaa gttttttttc ctagatcata 480
tattcagtaa atatgtttgt agctttattt caatccccc attcattgag ggttgaaaca 540
atttgaatgg tttgagtgt gaagctaagt tatttctgtg gaggctaagg gcatttatac 600
caagatatgt tagacttgtg gttcctgtta accattgctg tagacaatat gaattactgt 660
atatccacat ttttaatttt aacatcattc tgctc 694

```

<210> 735

<211> 126

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(126)

<223> n=A,T,C or G

<400> 735

```

ncnttgaaac nggttgacca gacttcagga ctgtgcgctc aatcgtggag aatctcgtgc 60
cgaattcggc acgagtctct ctctctctct ctctctctct ctctctctct ntctctctct 120
ctctctc 126

```

<210> 736

<211> 165

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(165)

<223> n=A,T,C or G

<400> 736

```

cagaagcctt taaaccggtt ngaccagact tcaggcctgt gcgctcaatc gtggagaatc 60
tcgtgccgaa ttcggcacga gtctctctct ctctctctct ctctctctct ctctctctct 120
ctctctctct ctctctctct ctctctctct ctctctctct ctctc 165

```

<210> 737

<211> 125

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(125)

<223> n=A,T,C or G

<400> 737

```

ggnagccctt ttaaccgttt gtccagactt caggcctgtg cgctcaatcg tggagaatct 60
cgtgccgaat tcggcacgag tctctctctc tctctctctc tctctctctc tctctntctc 120
tctct 125

```

<210> 738
 <211> 137
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(137)
 <223> n=A,T,C or G

<400> 738
 ggagncnctt gancaggatg accgacttca ggcctgtgcg ctcaatcgtg gagaatctcg 60
 tgccgaattc ggcacgagtc tctctctctc tctctctctc tctctctctc tctctctctc 120
 tctctctctc tctctct 137

<210> 739
 <211> 970
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(970)
 <223> n=A,T,C or G

<400> 739
 aggcctatatt aggtgacact atagaacaag tttgtacaaa aaagcaggct ggtaccggctc 60
 cggaattcgc ggccgcgtcg acggcccttn gtgccactag ntctttcatt cttccccccc 120
 atcaatcagt gaacttttta gcctactcaa agctttgctc caatgcatag gatttatgat 180
 tgtggggatt tccagataat ataaatatc aacatgaata ttttaaatta aggcattgaga 240
 catttttcct aactgagcat agccatgaac ctctcacgtc tgttctctg tgtcagtttg 300
 tancactgaa tacagcagcc ctctctaaaag tccaggcagt gcacaggctc tgacatgatg 360
 aagtgaactg ttgctatggt gattttgcag ctggccaaat agtcaactgg tgattttacc 420
 cagcaggaga tttttgcaaa aatttcctgg gtgagagtga aatcaaactc ctattttgnt 480
 tctctctctc aagctgnagt taagatggat taatgagtac ttttagatta attactctg 540
 aagagaaaat gggagaaaag tgaggaaggt tgttggcaga agtcattgct ggaatccttc 600
 tgaaggaggt actgacttca cttgcaaaga cnagagacta naagacaatg aagttaaact 660
 tggcctgtct ctcatatgat agatgctgag agtcaggntc agggaaattt aattctgtca 720
 tacgcataatn ggattatgtg gtcattggatt tgttggcact aaccngcctn taatcagnat 780
 aagaaaagtg ttttggtaga naaagaaaat tatggcccag aaaaacctgg aanacttgga 840
 aaaaatgntn gggggccttg ggtggtggtc tnaaaanacc ccctggggat ntttaaacca 900
 aaantgaaga agggaaaaat ntttcccent nttttntttt tttgccccct tgggattggn 960
 tttnttttcc 970

<210> 740
 <211> 739
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(739)
 <223> n=A,T,C or G

<400> 740

```

gntgtcnaaa aagcaggctg gtaccggctc ggaattcgcg gccgcgtcga cggcccttgg 60
tgccactagt tctttcattc ttcccccncca tcaatcagtg aacttttttag cctactcaaa 120
gctttgctcc aatgcatagg atttatgatt gtggggattt ccagataata taaatattca 180
acatgaatat tttaaattaa ggcatgagac atttttccta actgagcata gccatgaacc 240
tctcacgtct gtctctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
ccaggcagtg cacaggctct gacatgatga agtgacgtgt tgctatggtg attttgcagc 360
tggccaaata gtcactggtt gatttttacc agcaggagat ttttgcaaaa atttcctggg 420
tgagagtga atcaaactcc tattttgttt ctctctgca agctgnagtt aanatggatt 480
aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggt 540
gttggcagaa gtcattgctg gaatccttct gaaggagta ctgacttcac ttgcaaagac 600
aagagactan aagacaatga agttaaaactt ggctgtctn tcatatgata gatgcttgag 660
agtacaggnt cagggaaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720
ctttgtttgg cncctaacc

```

<210> 741

<211> 1171

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(1171)

<223> n=A,T,C or G

<400> 741

```

gccttgnggt gacactatag aacatgtttg tacaaaaaag caggctggta ccggtccgga 60
attcgcggcc gcgtcgacgg cccttnntgc cactagttct ttcattcttc ccccccacatca 120
atcagtgaac ttttttagcct actcaaagct ttgctccaat gcataggatt tatgattgtg 180
gggattttcca gataatataa atattcaaca tgaatatatt aaattaaggc atgagacatt 240
tttcctaact gagcatagcc atgaacctct cacgtctgtt cctctgtgtc agtttgtagc 300
actgaatata gcagccctcc taaaagtcca ggcagtgcac aggtcttgac atgatgaagt 360
gacgtgttgc tatggtgatt ttgcagctgg ccaaatagtc actggttgat tttaccacgc 420
aggagatttt tgcaaaaatt tcctgggtga gagtgaatc aaactcctat tttgtttctc 480
ctctgcaagc tgtagttaag aagggattaa tggagtactt tttagaatt aaattaacct 540
cttgaaagaa gaaaaaatgg gggaagaaaa aaagtggaag ggaaaagggn ttggttttgg 600
gccnaaaaaa aagttccaan ttnggcntt ggggaaaaat tccccntttt ccttggnaaa 660
aggggggnaa ggttaancct tgggaacctt tttccnncct tttnggccca aaagggaac 720
ccanggggaa agaaccttta ggnaaaggaa acccatttgg gaanggggtt naaaacctt 780
ngggcccccg ggccctctc caanaaggga aaaaaaagg cctggaaaan gtaccagggt 840
ttcangggna aaanttaaaa ttcttgcca atancnccat aattgggaat tatggggggg 900
ccatgggctt ttggttttgg cnccttaacc cgcnttttaa attcaaanna aaaaaagng 960
gttttgaaaa nnaaanaaaa aaaattnaan ggncccnaaa aaaaacctg gaaaacctt 1020
ggaaaaaaat tngnngggg gccntttggt tgggggggtt tnaaaaaacc ccctnggggg 1080
ttttttaagc ccaaaagggg gggaggggna aaanggtnc cttntttttt ttttnngccc 1140
cccttgggga atggnntant tcanggggcc c

```

<210> 742

<211> 739

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(739)
 <223> n=A,T,C or G

<400> 742
 gntgtcnaaa aagcaggetg gtaccgggtcc ggaattcgcg gccgcgtcga cgcccttgg 60
 tgccactagt tctttcattc ttcccncca tcaatcagtg aacttttttag cctactcaaa 120
 gctttgctcc aatgcatagg atttatgatt gtggggattt ccagataata taaatattca 180
 acatgaatat tttaaattaa ggcatgagac atttttccta actgagcata gccatgaacc 240
 tctcacgtct gtctctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
 ccaggcagtg cacaggctct gacatgatga agtgacgtgt tgctatggtg attttgcagc 360
 tggccaaata gtactgggtt gattttaccc agcaggagat ttttgcaaaa atttcctggg 420
 tgagagtga atcaaactcc tattttgttt ctctctgca agctgnagtt aanatggatt 480
 aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggt 540
 gttggcagaa gtcattgctg gaatccttct gaagggagta ctgacttcac ttgcaaagac 600
 aagagactan aagacaatga agttaaactt ggcctgtctn tcatatgata gatgcttgag 660
 agtacaggnt cagggaaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720
 ctttgtttgg cncctaacc 739

<210> 743
 <211> 610
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(610)
 <223> n=A,T,C or G

<400> 743
 ctgtccttat ttcttttagca aaaatttccc aagagaagaa ttgctgggat aatgcacatt 60
 taaatttttg atagacattc ccaaataatta tacctgtttt tgagaccttt aattcctggt 120
 gtcaaattgc cctatatatg gagtaataaa cacgatttaa agaaatgagg actaaaaaaa 180
 gattatatat aacccaacat aaaggcaacc tcttaggcgt tgacagaaac tgacaacttt 240
 ttatctgtgg gtgcgatcca ttataagtaa cctgagcacc ttattttttt tttttaaact 300
 ctaggttagga taccgaggt ccacaaattt ttcataagaa atattttttt tctgcctat 360
 gagattttta aaaatattat actgcttcaa ttgcatcaaa agaaatggac cctaatatct 420
 atgatgaagg atttgaggtt agaagacctg agtttcaatt ttggcatggc tgtttgtcta 480
 gctctngat cttggacagg tcaattgact tggttaatc ttctcatcca tttagnngag 540
 acagcaccac tattcacagg actattgncn gaattaccag acaatagcat agngaaaaat 600
 ataangcett 610

<210> 744
 <211> 127
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(127)
 <223> n=A,T,C or G

<400> 744

```
ttnacctccc tggaccgggc ccccttccc cgggcggntc ccccgggctg caggaattct 60
gcacgaggga gagagagttt gagagagaga gagagagaga gagagagaga gagananaga 120
gagagagag                                     127
```

```
<210> 745
<211> 458
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(458)
<223> n=A,T,C or G
```

```
<400> 745
gatatcccg gattcgcggc cgcgtcgacg tggcctctag tttgtcctgg tccaaagcag 60
ggaagctggg ctacgtcctg cccaggtcag ccttaggtta agggctgcct gggggaggga 120
acttcctggg ccttcgggtc tctgtgcaact ggggtggctc ctgtggccca gaatgccctg 180
gagaagggtc ctactggaag cgaagggtgca gggcagcagg gcctgaggcg caggagctgg 240
tggaggctcc cagcacaggt cgcgcgcccc gtcacatcac tgctgatggg ggggggactt 300
ggggagtttc ccccagaaat gggagggtctc acagtccccg tgctgcaatg ctgtcggtgc 360
actgngncng caatgtgctc atggncactt gctttttctc tgtggccccg gccgatttat 420
ccagcanngc accctctctc tncctctccg anaaagcc 458
```

```
<210> 746
<211> 893
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(893)
<223> n=A,T,C or G
```

```
<400> 746
aagcaggctg gtaccgggtcc ggaattcgcg gccgcgtoga cgtgggggagt tagctctctg 60
gaccccgta tagagtaagt catcgataga gcatttgctt gatggggact tccagaaggc 120
cannгааagt cctgccgact tcttggggaa gcccatccgc acgtgggggtg aggggtcccca 180
natggaagca gctgtgtatg cagggagggg gcagaggctg ctgccaatgg gcatgtccct 240
tacctgaaag ggccacctct ccagggtgaca tgtcctgggg gagccggggc cgtctgctcc 300
ggccagaggc gctcagctca ggccacacca ggcagggcac ctcccaacct ggacagggtg 360
ggaccaaggt ggccttggtgac aaaactctct gtgttttgcca agcaccacaat cggacacaga 420
gagtcacaac caccacagtc acatgggtgtc cacacngcag ggggtcaaggga ggcccgggcc 480
ctccccctca gacgtccctg ggccctctggg agtcagcaag gacgaggacg gcattgccct 540
tcgagacagg aaggagagtga cctcctcccg gcggcatcca ggctcngctt ctccggagag 600
gagagggggc tacttgctgg ataaancggc cggggccaca gagaaaaagc aagggtgacca 660
tgagcacctt gcaaacacag tgcaccacac agcatttnag caccnngggc tgtgaagacc 720
tcccatttct tcggggggaa acncgcccc ngttcccccc acctcacta gtgnattgtg 780
acctgggggn cgggcccagc cctgtngctt ggggnnagccc tccncccagg tttctnnggc 840
ngcccnttaa nggnccctng nttggccctt tggccncctt tncgcttttc cca 893
```

```
<210> 747
<211> 738
<212> DNA
```

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(738)

<223> n=A,T,C or G

<400> 747

```

gatatcccgga gaattcgcgg ccgcgtcnac gaagcacaga cctgngccct gctctcatgg 60
ggcagactgc catttgtcat tnattactga aggaaaggga tcctcagttt gcttgtggac 120
atttcaaat tgaggtgaga gttggataag taagaataaa gctgctcttc aaagagatga 180
atatagaaaa agaaacaaga tacagncttg gcagtaaggc tgggaggaag gggaaaagg 240
aataaagaat gaaagagtga gaaatgtgag caggagctga acacagaaaa gttcagngac 300
agaagcanaa ggagggaaga agggaggagg gtccctttca cagaggctca cgaggatgct 360
ttatgngtgc catgcagtc atgttcagga tgtctgcttc ttanctctct acttttctaa 420
tanaaatttg gatacttact gatcctacat atgtaacagg gagagaagg gaatttcaaa 480
gcantaaatt gaaaaattgt tcacaatttc atttttttaa aaaaggagc taacagaaga 540
agagggttaat gtggttaatta taggatgnct cttgcgcac atgaatgnat ctggtatcat 600
ctgagtggga ggggagctgt cttcctgacc caaaaggatc ctttcgttan ccgnactta 660
ngtcccaaaa cctcaccacc ttggagaaat natttccttt tgggggtntc attaaancct 720
tttgncccc gcaaaagc                                     738

```

<210> 748

<211> 647

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(647)

<223> n=A,T,C or G

<400> 748

```

ctntgtggcg gtggctgtct catttgggtg gacttttttg gtcgtaggaa cctggtatng 60
aggctcgagag taagacgggc tattagtagt cgcacggag ttatttgtga aaacctgggt 120
agggcctctg tctccgctgc gctcgcctaa attggtatgg ctogacttgg aaacacgggt 180
ctaacacgcg ttgttagcgc ccttgctagc atgtgaagga cactggccct accaagaaag 240
attcgagtcg ctccttccgg tatcggtcac ggaggcgata tttactcttc ttactacggt 300
tacttcgaga ttgtctgtga agtttaagac tactaaaaag agtattaagc ctatcgggaa 360
ttagctagat cgacacgcta aaaccaaggg caatcggcgg aatatagag gcaccaataa 420
tagggcctac agaaggcccc agggtttagac tcacgtttta taccggccac gggagaaata 480
aaaagataaa gtatacatcg tttagcggtc ctcggaagcc ttcggcttta atgccaagga 540
gtcgaagca tcgtcggcga gtaataaact ccatcgcgcc gagactatct acgacgccct 600
ccttaanac cgtaaattac tcccggaaag agtatattag cggctct 647

```

<210> 749

<211> 642

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(642)

<223> n=A,T,C or G

```

<400> 749
ctntgtggcg gtgngtgtct catttgggtg gacttttttg gtcgtaggaa cctgggtatgc 60
aggtccgcgg agcgtgggct ctgcgtcgtg atgttggggg ttggtgtggt gccgggtgtt 120
tttggttctg ttgagcgtag tgtgtttgaa ggtagcgtt cgtgtcttgc ttgtggtttg 180
gtgtttaggg cgggtgggga ggttgtttgt tagctgttgt atgtcatatt gttgggtgtt 240
ctgccctgtg ctgtttgtcc ttggttattg tgggtgttac cccgcctgtg tgggaagtgt 300
gtggcagggc gggaatttaa gtgggagagt tgtgggaccc gtggttgtt ttacgttgct 360
gcttttgcg tgggcggtgg cggcgcgctc gataattaga attggatacg gagtgtataa 420
tacttctagt aaatggggac ctagtgcctg acttcccga atagggatct atgcgaagtc 480
cttaggatag tctttgataa gtttaacgcc caccacccta aaattataca cgattagacg 540
cataacgact cctccaggaa agataaagaa tctcacatat agaacgggac ccatacacg 600
tcggaatagg aacaagagaa ctaattttng ttaaaaagac tt 642

```

<210> 750

<211> 639

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(639)

<223> n=A,T,C or G

```

<400> 750
tttgtggcgg tgggtgtctca tttgggtgga tttttgggtc gtaggtaacc tggatatngag 60
gtatagatgc cgattgggtcc cgacgagcgt caccgataaat tcggtagttt cgcccttttt 120
agaaggcgct agtactcgga acttcacttc atctcggtag ttacttttg cgtatatagc 180
cttctccctc gaagactagc cgtcacattc gttccctagg aatcgtttct gccctaaga 240
atccgagagc gagatccga aactagagga acctagaag agtcgtattt ccacaaggac 300
cccacagtca ttccgggaaa atccctagga ccatacgggt aggattcccc cggaacccgg 360
agcaaagctc atgatttccc acaccgcgag agcgccctata accctatccc atttcttcgg 420
gttatcgagg atattacgat caagccgaga gaaccgctag aaccgctttc ttcgctttct 480
cacggaacct ataagtagaa agagaaactc aggtcttaag ggggcgcttc ggctaacgaa 540
acttctactt acgaagagag tatctagaca ttaagtcata aaaatccact acgcacctcg 600
tgtacgatat catcgggagc ggttcataga cggtgtccg 639

```

<210> 751

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(637)

<223> n=A,T,C or G

<400> 751

```

cttttgtggc ggnggtgtct catttgggtg gatttttggg tcgtaggnaa cctgggtatng 60
aggcagctct gagccccccc ccccccccc ccccccncct ccccccccta ggnggttggg 120
aanacggtgg atacctaaat cgagtnggtt cattaaaagt agttgattac nccctaaaat 180
aanaanaggg ctctgcctggg anaaatcggt aagganaagt cttntggca tcataanaat 240
actggctcgg gtccctaanat ntttaaggng gtcnccgagg gtnnccatac cgataanaaa 300
cgttttccta tcggcaacgg gcttacctga gggnggactt ctnccgngc ggngattnan 360

```

```

acgaanacgt agaggattnc cgtacttnt tganatcacn cgtatcatac ttgtaagcat 420
aattntcctg aaaagcggtta taanaatacg cncgcataatt cgcttttttcg tcctagggat 480
gcttaaatgg cgatactgct atagcgggtg agcgttggtt ctcgagnaana aaagcgtgct 540
ctaatacgctc taaggnttta agnncggttg tttaaaaata nccttagaaa cctcgaggcg 600
gatactggtt tntttttaac gaaacaaagc accccnn 637

```

```

<210> 752
<211> 644
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(644)
<223> n=A,T,C or G

```

```

<400> 752
tntgtggcgg tgggtgctcat ttgggtggat ttttgggtcg taggaacctg gtatgaggtc 60
ttgcgagttg ttgggtgtgtc ctgtcgttcg gtggttcctt tttgagttga gtttgcctt 120
tgaggttggt agctgctgtt cgtttgtgtt cgtgtagtgc tttgggttga gagggttatg 180
gtgggtggtta cgggtgtattg tcgcccgtgg tcgcggggtt ggggtgggtc tcggttttgt 240
ggttcatagt agtcttctgc gttcgggtgg gcgggtttgg gtgagtagtt tcgttcttgg 300
atgtcccat gacccgccat aatctaagta agggttagta gaaacctct cccgatatagac 360
acaaccgtcg tccactaaag acctcgctc tgatttttta aaggaccgga aaaacatccc 420
ttcaacggaa aaaacggaaa aaaagtcagc gaattcaaag aagccacggg agagaaaaaa 480
gaactaaagt tagtccgtca ttatatgtct cctcgaggga ggaagcggcg gtggcggaaa 540
atgaggcggg aagaaagacg acctctatcg gcggttang ccctaaaagg gcgatacctt 600
acgggatgat aaggacccta ggacgcctcc ttctcggtac gtcc 644

```

```

<210> 753
<211> 635
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(635)
<223> n=A,T,C or G

```

```

<400> 753
ctttgtggcg gtggtgctca tttgggtgga ttttgggtc gtaggaacct ggtatgaggg 60
aatcagctcg accccccccc cccccccct ccgaagcaga gcccaacca aagtcaccg 120
actaccgag taaactctcg gaggttagaa taagaaggag taggtcctag ccaatagaag 180
tagttccgag ccgttaggac agcggacgga acattnaaga aagagcctat attagggagg 240
aagtaacgtt cctctttcgg agctctttaa gggtagtcc cagaacaagg gaagaggacc 300
cgctcgctat tgcccgtcga tacgggctct cacgngagc ctaggttcga ggatagggcc 360
gctcgtaaaa ttatacgggt tccgagaaac gcttcgtag accgggtcct aaatcgctcg 420
gagtattngg agagggatcc ttcggacct agggacagag agaggagaac ggaggttaca 480
ggaggagAAC gtntcctcnc tagttttctt tangtcgaaa aatttcttac cgatagggtt 540
cctagggtcg gngaatttac ggttcgaaaa acggtagtnc ctaanggntg ntattngggg 600
tagtatcggg tcgtttacaa ntcgtccgtc ttntg 635

```

```

<210> 754
<211> 721

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<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(721)
<223> n=A,T,C or G

<400> 754
accggattng ttctgagcg cgtgactgct aataaaaaag atggantgcc atcttttttt 60
ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcngggct ataaaatttg 120
gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
ctcaaggga gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
gttttgtagg ctttttttcc cttcttttcc ctctctcagc ttctccctgc ttctcagaan 300
atggagttgt gatgcctgca acttaccaaa tttatctatg aatcagattc cagtgggaga 360
cccctaaagc agagggagaa taaggagtgc tccccatgat ggaaaatata caaagacaag 420
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
gtgtacactt tatctgtctc tttgcttctt cccaccctc tttcccagct ctctctctgt 540
ctctctcttg ntcccctgac ctttttttct tcccantgca tacttttttn tttccctttt 600
ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcaccctga 660
ataggggatt cntangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720
a 721

<210> 755
<211> 721
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(721)
<223> n=A,T,C or G

<400> 755
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ttnccttgct ttatatatcc agcagcaaaa caaaattggt ctgcngggct ataaaatttg 120
gcttgtagt cntgtacaca actcaggagt gtgacacagc taccagcttt cctcctaact 180
ctcaaggga gaaaattcaa gttctgtcta ggctcactct gtaaagtggg aaacttgctg 240
gttttgtagg ctttttttcc cttcttttcc ctctctcagc ttctccctgc ttctcagaan 300
atggagttgt gatgcctgca acttaccaaa tttatctatg aatcagattc cagtgggaga 360
cccctaaagc agagggagaa taaggagtgc tccccatgat ggaaaatata caaagacaag 420
gtttcatgga gcaaagaatt ctggctagat ttggtttgta agtggatccc tccccactgc 480
gtgtacactt tatctgtctc tttgcttctt cccaccctc tttcccagct ctctctctgt 540
ctctctcttg ntcccctgac ctttttttct tcccantgca tacttttttn tttccctttt 600
ttaatcttct atantcttaa ncctaccaan gggccctcnt gannaatttn tcaccctga 660
ataggggatt cntangccc tgagaatttc nttatcanaa aaatattttt ttaaagcatt 720
a 721

<210> 756
<211> 873
<212> DNA
<213> Homo sapiens

<220>

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<220>
<221> misc feature
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<222> (1)...(647)

<223> n=A,T,C or G

<400> 758

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ntttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60
gggaagagcg ccgtcgggtcc gaggtagtag tagtcttcgc gccttctcgg 120
gcggcggggc tattctctcc aaaggcagag gtccctagtc gacctcgtc ccctagggtta 180
ggaacagccg tcgaatatatt taggttcgtc gaggctttct tccgagctct acgcctaagt 240
agctccgcga gcaaagtatc ggtcattttc ccctatccat cactccccta agtacgcctc 300
attattccgg aaggcaagag gccagcattc ctcccttagag tagagggtag gtacctccgt 360
cgcggtccgc gaaagggcag agcttcgtgt ctccctccg cagcagctta acggtctacg 420
taggcgttct cgatcttttc acgggaatcg gggccggga gggcggcgga aaacgtcgac 480
gtctcgggtc ccgtcaccgc cccgaacaac tagcggcttt ccgctttcaa ctgaggaacc 540
ccgcacccct cattagcgct tacgaaatcg gggangtgat tgcgccaatt cgtagcctt 600
cgataattat tctctattag cggtcctatc tcgcgctttc gattttat 647

```

<210> 759

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(657)

<223> n=A,T,C or G

<400> 759

```

ctttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatnga 60
gggctctata gaaagcctct tgtctttaga tacgggcttt ctggtccttc gttctggaag 120
tgtagtagta ggtactgcgg gaaggcgaag agtcctttca aggacgattt acttaagttg 180
gcttattcta tagttccttc gggacataag gtcggtacga tctatactgc gtgggaagct 240
gataggtttg gacttaaggc gaataagaag gaggcggcgg aggtcgcgat taccgcagag 300
atattattta cggcgccgc gggtagccgc ggcatgcgg aaattttctg aggttcttgg 360
attcctaaga tcgctcccggt cgagtatact agcgcgaac gtaagagtgc ctcacaaga 420
accggtacaa actcaagaag aagttcccat taagcatcgt aagaaacggg aggacgagga 480
cggtaagaag taatcggaga aaggatccta gtngttacga agaagcatcg ttnagctact 540
ttgcgtacc gtttatattt agacgtgttc cgctcttctc cgtgtttana aaaaagggtt 600
attccgacgg gagacttag cgaatggagg gttccgcggg tganaatcgg ancggg 657

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<210> 760

<211> 644

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(644)

<223> n=A,T,C or G

<400> 760

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ctttgtggcg gtggtgtctc atttgggtgg actttttggg tcgtaggaac ctggtatgna 60
ggaaaagaag taagcctcga agcctatctc cgaccgtatt tatttcgcag aagacggaac 120
tacggacgtc gtttaacccg agtagcccc gtaagaaagg actaaagcga atggaaaagt 180
cggaattcc ggccgagggg cggcgattac tgaaaggagt aagagtaaga ctattgcgat 240

```



```

acttgaggcg ttccctctta aaaggcaccg gaaacactct attaaaaaac acccgaagaa 300
gaacaactca tgcgatcggc cgtgtgcagc cgtoaatagt aaagagagcc atgaaccatg 360
ccatccttag accaattagg atgaagaaga ggaggaagat gaggaccaa ccctaccac 420
tcggaaaacc ccgcacgagc ctccgaacaa aatccgggaa ttaaacggc ggcccacttc 480
cgactctcg tagcgcgagc cgaatagaaa accggaaact acagctaaag ggtcctttcc 540
ggcctgttat ctaccaccc gcaatccgat cctccccccc cctcgtccaa aaaccctaac 600
ctctgcggca acattagagc agaaggagag ggcgatccct tgan 644

```

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<210> 761
<211> 647
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(647)
<223> n=A,T,C or G

```

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<400> 761
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ggcgggtact ctctgggata atcggtataa gtgttgtaaa attgggggta agagaaagtt 120
tcattataag aagtgggaagc acgagccggg gtgttttagtc gttaatatta agaccggttt 180
ttgttgtagt tatatagctt gcgcgtgggg aggcaataag aaacattgag tttcgaggcc 240
ggatgcgggg aaccctcttc ggggtctaga gcgcgcgcat tgcaaaataa ggactactga 300
cgccgctcat aacgtactca acaatgagtc ggctgcatt aagatttcgg cgaagaaccg 360
tactgcgtct actgatagta tattgcattg atagcggcat gagctttatc acgtgtcgtt 420
ttcgggttgt aagaaggag ttaagtcgat cttcgaggaa gaagagacc caaataaaaa 480
atgactcaaa aaaacctaga agaaacacga cgaaaggaaa aagaacgta aaactagtag 540
ctcttcggan gtagtcctt agtagggtaa gtctccgtg cgtactgtcc taaggtttgg 600
atagcgcggt tgaatagacg gtcacgcgctc agaaggtaaa aanccgg 647

```

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<210> 762
<211> 628
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(628)
<223> n=A,T,C or G

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<400> 762
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tgtgttccct ttattcgctt gtattaatat ttgcgtagtg gattaaaca atacttggtg 120
ttgactgtca gtcttagagg actgactaga agtagttttc atttggggct caggaaatac 180
ctactttata ttcttagcta attaggaaag tcatttttca gtaggttggt tgttttggtt 240
caggcactcg ctagctagat gacctaacat gctacttaat ttctgagtgt ttgtgtccat 300
ccctgtagga ttgttgcggt gttaaataaa attgtgtata tttgtaaagc atttacctca 360
gtgcccagac tgtgacagag tagattatta ggcttgcctt tatttctgtg attaaattta 420
gtgtcagatt agcaacctat agctacttct aaagctgctg ctgctttctt tgtttagggt 480
taggaagaaa catgtgtggc agtttgccaa atgagagtta catgatgtgg cttgtgggaa 540
catttctaact tggaaacttg ccatttccag gactttgngg ttcanagatt tttggggata 600
gatgtaagggt ttaaaaaaaa cngaaaac 628

```

<210> 763
 <211> 147
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(147)
 <223> n=A,T,C or G

<400> 763
 cattgtgttg gggcagagat aaataattcc tctgaaaagt gttttattgg aatttcaa 60
 gaaaagctaa ctggataact tacagcatgt ttctgccaat aatctcttan aacaggcctc 120
 ttttttttat gcacaccacc ttcnnggc 147

<210> 764
 <211> 146
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(146)
 <223> n=A,T,C or G

<400> 764
 cattgtgttg ggtatgtttt ttgaaggcag gtggacagga tttgctgatg ggtaaattggc 60
 agagtttagg ggactgttag aacagagaaa ganatcatgg ggttggggtt gagtctgatg 120
 nnnaactggg gccgnntgct cagtat 146

<210> 765
 <211> 129
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(129)
 <223> n=A,T,C or G

<400> 765
 tnncgattc gntnctagcg tntacactna tgtcttggtta ccgagctcgg atccactagt 60
 ccagtgtggg nggaattcca ttgtgttggg gcaggaggng ctttgngtac ngtgcggctg 120
 nagaggcgg 129

<210> 766
 <211> 175
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(175)
 <223> n=A,T,C or G

<400> 766
 cattgtgttg ggcctagtc gaataactttt agtaacttca gacagatctc ctcattctctt 60
 tctggggctt ggntttttctc ctttgtanaa tgatgccttt ctgtgggttt gtcattttcta 120
 acattctgtg ngtgatgagg tgtatatcgc anganctcta tcnccanagt actct 175

<210> 767
 <211> 602
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(602)
 <223> n=A,T,C or G

<400> 767
 nnnttttaaaa nctgtntctc ccgcgggtggc ggccgctcta gaactagtgg atcctttcca 60
 cctggtttgt tttcagtggt taatcctatt agtatcagca ggatataggt caggatatca 120
 ggtgcagaac ctgtggaatc agccaatttg gcttgctcat ttactttaat aagggtcccat 180
 aatgagtgag agtacaaagt tcaagccctg ttgagggctc gcattaaact ctcagaagta 240
 ttttagagtgt gccaggagcc gcgaaggctc gggtcgggtg gtggcgggaa ctgtattaga 300
 gtgctaggca cggcgcgaca aagtctgtcc aacccaaaac ggtgctgagg cgttggggtg 360
 gagctccagt actcagaaaa gcatctcagc aggtactcaa cagatcctca ggggcttggg 420
 ggcccagcac tggcagtgag ggcatgaaag acataaaaagg gcactacctg tgggtatttt 480
 ctgtttctcca aggaggaagt agcaaaaatt aggacgctgg aatatacctat gttgtagcaa 540
 tcccagaaca actgatgctc aacaaatacc acacaaaaca aattttttta aatttaactct 600
 ta 602

<210> 768
 <211> 671
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(671)
 <223> n=A,T,C or G

<400> 768
 tccaccgcgg tggcggccgc tctagactag tggatccact agtccagtgt ggggtgggaat 60
 tcgcggcncg cgtcgacaaa aatactgcta aagtaatatt tttatagatg actatttgcc 120
 ttggggccag gaaaagcagc tggagttatt cacttagtac cttttttaca tactaacttt 180
 gcctttttcca tgcttgcttg atgcggcttg cagcactgaa gaacagtttc aattgctagc 240
 caaccagaga gcatgatcaa accaaacaag ttccctgttt caggaaaaac aggttttagg 300
 taactgaagg gttaccagtt actgattcca caatcttctc tgtaaaaanat ttctgcctat 360
 tatgcagact gggcggtttt aaanntggta aaactatnaa ataccatac aatattttta 420
 nggggcccnn ttatnaagct tttcaggcct tcccctttcc atagcattgg tgggatacaa 480
 gaaaccttta aacagcaacn agctatcnag gcccaaaagg aaagtaattn tgatttttta 540
 nagattccgn aacgaaaaaa tggctgggtt caaatacnac cttcttttta aaatggnttc 600
 cttattaaac nttttttttt ttttaatttta ccccatgggc ntgatnttng ngcttccgcc 660
 canaaaaatng n 671

<210> 769

<211> 877
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(877)
 <223> n=A,T,C or G

<400> 769
 aaagctggag ctccccgcgg tggcgggccgc tctagaacta gtggatccac tagtccann 60
 ngggggaatt cgcggccgcg tcgacctcta tacctttgnt catgcagctt cctctgactg 120
 ggtttgttct tcacttggtc aacccctctt ttacttaagc acaccttgaa cattccctcc 180
 ttccccattt ccccgagng cccctaattg acatacttct gaataacaca ggtgggtattc 240
 cttccttggt ggaacctcct ggaggaagag acagatgatt aacaaatcct tccatcaacc 300
 cctttgacca tgacatcaac agtgcctcaa attatggggg accgtattag cctatgtcta 360
 tcttgatcag aatccttacc tgggtgtatt gaaattatct atttcgtgcc tgccctcttta 420
 aagtcagggt ttgccttatc tattgtctaa caccatgcag taggtaacat gcagtaggaa 480
 acatggcatt aaattatttg ggttcaaata ccagttatgg tgtgtaaata cctaccaggc 540
 cgtgaggcac ctgctaagca ggttgacgcg atcatttgaa ttcacaccac ccttttgcaa 600
 tagaacagat aggcaacaga ggctcatttg ggctaaagga tttgatggag gggaaagtgcc 660
 aggattccca ccaaggcctc anggccagg tccanggacc atgtctgttg tgacaactgg 720
 agtgcatttc atatccctn ctctgngggg naaggctcct cncgnggaga acnnttaaaa 780
 caatcatntc tngggggnnt aatgcttctt nccccagtg ggtncactgc ngccacgagt 840
 cccanccact agtcccangt ctgtcatgaa ccancce . 877

<210> 770
 <211> 874
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(874)
 <223> n=A,T,C or G

<400> 770
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 gaattcgcg cgcgctcgac cttttcaaag gttaacttat ttaattatca canngcaac 120
 ccgatgagta ggtaacagta ttttactgat aggtaatcta aagaaggagg ctaaataaat 180
 tgcccaattt cgaacagtga gaggaagaat taggattgaa acacatatag tggcttcaga 240
 atctgtaacc ctcacgatgc cactactact tctttcagaa taccctttgc ctatctattc 300
 tgttcctatg tcatcaaatt atacttactt taaaaagtat ttgtctttat tattttttaa 360
 aaaacacagg gaagtatttc tgatcagggg cagtattggt tctgaaagac aagccagtgt 420
 ttttgagggg ttctcccttg ccagtttttc tatgctgggt tattcaagtc ctaagaattg 480
 tgtagctatt acagaaccgc tttagcaaat gtgttccatt aatcaagggt atttataaca 540
 aaatttcata caagtttggg gtgctctgaa aacatagcca aaatgttcgc aggggtctacc 600
 cctctcgtgt gtcccttttt tttagctatt tcagaagcac actggtgcaa tatttttacga 660
 aatgagtttc ttccctttac ctctgcatcc tctaagaaaa aatcattgnt gttttatgaa 720
 natgaanatc ctgctatttc atatcttgat tggagctgct taattaaatg accatttttna 780
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<210> 771

<400>	773						
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catgggagtt	ccaaacgagc	agtcctgtgt	tccggcgagg	acagggtgtt	cacctgcggc	180	
tggtgctgaa	ccagccocta	caatcctacc	accaactgaa	actggaattc	agcacagggc	240	
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attacgtggg	ggctgccaga	agtatcaaat	gcaaaccttg	gaactttggt	cagtttgaga	600	
aaaatgtcct	ggactgctgc	atttccttgc	tgactgagag	ctccctcaag	cccacagata	660	

ggagggagccc cgtgctggtg tgcagggcca tgtgtgctat gatgagcttt gagaaaggcc 720
 agggogtgcct cattgggaat tggactgggg actatgaagg tggcacagcc ccatacaagt 780
 ggacaggcag tgcctcgatc ctgcagcagt actacaacac gaagcaggct gtgtgctttg 840
 gccagtgcctg ggtgtttgct gggatcctga ctacagtgcct gagagcgttg ggcattcccag 900
 cacgcagtgt gacaggcttc gattcagctc acgacacaga aaggaacctc acggtggaca 960
 cctatgtgaa tgagaatggc aagaaaatca ccagtatgac ccacgactct gtctggaatt 1020
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 tgggccaaaga caggcggaga gatatcacct atgagtacaa gtatccagaa ggctcctctg 1380
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 gacctgtaaa agagaacttt cttcacatgt cggtagaact agatgatgtg ctgctgggaa 1500
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 tcttgggctc ctttgaacta cagttgtaca ctggcaagaa gatggcaaaa ctgtgtgacc 1620
 tcaataagac ctgcagatc caaggtcaag tatcagaagt gactctgacc ttggactcca 1680
 agacctacat caacagcctg gctatattag atgatgagcc agttatcaga ggtttcatca 1740
 ttgcggaaat tgtggagtct aaggaaatca tggcctctga agtattcacg tctttccagt 1800
 acctgagitt ctctatagag ttgcctaaca caggcagaat tggccagcta cttgtctgca 1860
 attgtatctt caagaatacc ctggccatcc ctttgactga cgtcaagttc tctttggaaa 1920
 gcctgggcat ctctcacta cagacctctg accatgggac ggtgcagcct ggtgagacca 1980
 tccaatccca aataaaatgc accccaataa aaactggacc caagaaattt atcgtcaagt 2040
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<212> DNA

<213> Homo sapiens

<400> 774

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<212> PRT

<213> Homo sapiens

<400> 775

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Asn Gln Pro Leu Gln Ser Tyr His Gln Leu Lys Leu Glu Phe Ser Thr
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Gly Pro Asn Pro Ser Ile Ala Lys His Thr Leu Val Val Leu Asp Pro
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Arg Thr Pro Ser Asp His Tyr Asn Trp Gln Ala Thr Leu Gln Asn Glu
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Ser Gly Lys Glu Val Thr Val Ala Val Thr Ser Ser Pro Asn Ala Ile
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Leu Gly Lys Tyr Gln Leu Asn Val Lys Thr Gly Asn His Ile Leu Lys
 115 120 125

Ser Glu Glu Asn Ile Leu Tyr Leu Leu Phe Asn Pro Trp Cys Lys Glu
 130 135 140

Asp Met Val Phe Met Pro Asp Glu Asp Glu Arg Lys Glu Tyr Ile Leu
 145 150 155 160

Asn Asp Thr Gly Cys His Tyr Val Gly Ala Ala Arg Ser Ile Lys Cys
 165 170 175

Lys Pro Trp Asn Phe Gly Gln Phe Glu Lys Asn Val Leu Asp Cys Cys
 180 185 190

Ile Ser Leu Leu Thr Glu Ser Ser Leu Lys Pro Thr Asp Arg Arg Asp
 195 200 205

Pro Val Leu Val Cys Arg Ala Met Cys Ala Met Met Ser Phe Glu Lys
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Gly Gln Gly Val Leu Ile Gly Asn Trp Thr Gly Asp Tyr Glu Gly Gly
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Thr Ala Pro Tyr Lys Trp Thr Gly Ser Ala Pro Ile Leu Gln Gln Tyr
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Tyr Asn Thr Lys Gln Ala Val Cys Phe Gly Gln Cys Trp Val Phe Ala
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Gly Ile Leu Thr Thr Val Leu Arg Ala Leu Gly Ile Pro Ala Arg Ser
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Val Thr Gly Phe Asp Ser Ala His Asp Thr Glu Arg Asn Leu Thr Val
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 Gln Pro Gly Glu Thr Ile Gln Ser Gln Ile Lys Cys Thr Pro Ile Lys
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<211> 679

<212> PRT

<213> Homo sapiens

<400> 776

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Asn Gln Pro Leu Gln Ser Tyr His Gln Leu Lys Leu Glu Phe Ser Thr
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Gly Pro Asn Pro Ser Ile Ala Lys His Thr Leu Val Val Leu Asp Pro
 65 70 75 80

Arg Thr Pro Ser Asp His Tyr Asn Trp Gln Ala Thr Leu Gln Asn Glu
 85 90 95

Ser Gly Lys Glu Val Thr Val Ala Val Thr Ser Ser Pro Asn Ala Ile
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Leu Gly Lys Tyr Gln Leu Asn Val Lys Thr Gly Asn His Ile Leu Lys
 115 120 125

Ser Glu Glu Asn Ile Leu Tyr Leu Leu Phe Asn Pro Trp Cys Lys Glu
 130 135 140

Asp Met Val Phe Met Pro Asp Glu Asp Glu Arg Lys Glu Tyr Ile Leu
 145 150 155 160

Asn Asp Thr Gly Cys His Tyr Val Gly Ala Ala Arg Ser Ile Lys Cys
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 Lys Pro Trp Asn Phe Gly Gln Phe Glu Lys Asn Val Leu Asp Cys Cys
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 Ile Ser Leu Leu Thr Glu Ser Ser Leu Lys Pro Thr Asp Arg Arg Asp
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 Pro Val Leu Val Cys Arg Ala Met Cys Ala Met Met Ser Phe Glu Lys
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 325 330 335
 Pro Tyr Asp Gly Trp Gln Ala Val Asp Ala Thr Pro Gln Glu Arg Ser
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 Gln Gly Val Phe Cys Cys Gly Pro Ser Pro Leu Thr Ala Ile Arg Lys
 355 360 365
 Gly Asp Ile Phe Ile Val Tyr Asp Thr Arg Phe Val Phe Ser Glu Val
 370 375 380
 Asn Gly Asp Arg Leu Ile Trp Leu Val Lys Met Val Asn Gly Gln Glu
 385 390 395 400
 Glu Leu His Val Ile Ser Met Glu Thr Thr Ser Ile Gly Lys Asn Ile
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 Ser Thr Lys Ala Val Gly Gln Asp Arg Arg Arg Asp Ile Thr Tyr Glu
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 Tyr Lys Tyr Pro Glu Gly Ser Ser Glu Glu Arg Gln Val Met Asp His
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<212> DNA

<213> Homo sapiens

<400> 777

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<211> 1095

<212> PRT

<213> Homo sapiens

<400> 778

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Ser	Ser	Ala	Ser	Arg	Ser	Thr	Asp	Leu	Ser	Tyr	Ser	Glu	Ser	Asp	Leu

20

25

30

Val Asn Phe Ile Gln Ala Asn Phe Lys Lys Arg Glu Cys Val Phe Phe

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Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp		
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Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser		
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Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp		
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His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys		
	130	135
Asn Phe Ala Leu Lys Pro Arg Met Arg Lys Ile Phe Ser Arg Leu Ile		
	145	150
Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His		
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Tyr Gly Leu Thr Lys Tyr Ile Gly Glu Val Val Arg Asp Asn Thr Ile		
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Lys Ala Ile Asn Thr Ser Ile Lys Asn Lys Ile Pro Cys Val Val Val		
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Glu Gly Ser Gly Arg Ile Ala Asp Val Ile Ala Ser Leu Val Glu Val		

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 Trp Ile Thr Ile Pro Leu Val Cys Ile Tyr Met Leu Ser Thr Asn Ile
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 965 970 975
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 Val Gln Glu Tyr Cys Ser Arg Leu Asn Ile Pro Phe Pro Phe Ile Val
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 aagtgtggct atgcccagag ccagcacatg gaaggcaccg agatcaacca aagtgagaaa 360
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Gln	Ser	Gln	His	Met	Glu	Gly	Thr	Gln	Ile	Asn	Gln	Ser	Glu	Lys	Trp		
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Cys Leu Phe Ile Ile Pro Leu Val Gly Cys Gly Phe Val Ser Phe Arg		
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Lys Lys Pro Val Asp Lys His Lys Lys Leu Leu Trp Tyr Tyr Val Ala		
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Phe Phe Thr Ser Pro Phe Val Val Phe Ser Trp Asn Val Val Phe Tyr		
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Ile Ala Phe Leu Leu Leu Phe Ala Tyr Val Leu Leu Met Asp Phe His		
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Ser Val Pro His Pro Pro Glu Leu Val Leu Tyr Ser Leu Val Phe Val		
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29

<210> 817
 <211> 1959
 <212> DNA
 <213> Homo sapiens

<400> 817
 atgaggaaca gaaggaatga cactctggac agcaccgga ccctgtactc cagcgcgtct 60
 cggagcacag acttgtctta cagtgaagc gacttggtga attttattca agcaaatttt 120
 aagaaacgag aatgtgtctt ctttaccaaa gattccaagg ccacggagaa tgtgtgcaag 180
 tgtggctatg ccagagacca gcacatggaa ggcaccaga tcaaccaag tgagaaatgg 240
 aactacaaga aacacaccaa ggaatttcct accgacgcct ttggggatat tcagtttgag 300
 aactgggga agaaaggga gtatatacgt ctgtcctgcg acacggacgc ggaaatcctt 360
 tacgagctgc tgaccagca ctggcacctg aaaacaccca acctggtcat ttctgtgacc 420
 gggggcgcca agaacttcgc cctgaagccg cgcctgcgca agatcttcag ccggtcatc 480
 tacatcgcg agtccaaagg tgcctggatt ctacgggag gcaccatta tggcctgatg 540
 aagtacatcg gggaggtggt gagagataac accatcagca ggagttcaga ggagaatatt 600
 gtggccattg gcatagcagc ttggggcatg gtctccaacc gggacaccct catcaggaat 660
 tgcgatgctg agggctattt tttagccag taccttatgg atgacttcac aagagatcca 720
 ctgtatatcc tggacaacaa ccacacacat ttgctgctcg tggacaatgg ctgtcatgga 780
 catccactg tcgaagcaaa gctccggaat cagctagaga agtatatctc tgagcgact 840
 attcaagatt ccaactatgg tggcaagatc cccattgtgt gttttgcca aggaggtgga 900
 aaagagactt tgaagccat caatacctcc atcaaaaata aaattccttg tgtggtggtg 960
 gaaggctcgg gccagatcgc tgatgtgatc gctagcctgg tggaggtgga ggatgccctg 1020
 acatcttctg ccgtcaagga gaagctggtg cgctttttac cccgcacggg gtcccggctg 1080
 cctgaggagg agactgagag ttggatcaaa tggctcaaag aaattctcga atgttctcac 1140
 ctattaacag ttattaaaat ggaagaagct ggggatgaaa ttgtgagcaa tgccatctcc 1200
 tacgtctat acaaagcctt cagcaccagt gagcaagaca aggataactg gaatgggcag 1260
 ctgaagcttc tgcctggagt gaaccagctg gacttagcca atgatgagat ttccaccaat 1320
 gaccgccgat gggagtctgc tgacctcaa gaagtcattt ttacggctct cataaaggac 1380
 agacccaagt ttgtccgcct cttcttgagg aatggcttga acctacgga gtttctcacc 1440
 catgatgtcc tcaactgaact cttctccaac cacttcagca cgcttggtga ccggaatctg 1500
 cagatcgcca agaattccta taatgatgcc ctctcacgt ttgtctggaa actggttgcg 1560
 aacttcgaa gaggttcctg gaaggaagac agaaatggcc gggacgagat ggacatagaa 1620
 ctccacgacg tgtctctat tactcggcac cccctgcaag ctctcttcatt ctgggccatt 1680
 ctccagaata agaaggaaact ctccaaagtc atttgggagc agaccagggg ctgcaactctg 1740
 gcagccctgg gagccagcaa gcttctgaag actctggcca aagtgaagaa cgacatcaat 1800
 gctgctgggg agtccgagga gctggctaag gagtaacaga cccgggctgt tgagctgttc 1860
 actgagtgtt acagcagcga tgaagacttg gcagaacagc tgctggtcta ttctgtgaa 1920
 gcttgggggtg gactcgagca ccaccaccac caccactga 1959

<210> 818
 <211> 652

<212> PRT

<213> Homo sapiens

<400> 818

Met Arg Asn Arg Arg Asn Asp Thr Leu Asp Ser Thr Arg Thr Leu Tyr
 5 10 15

Ser Ser Ala Ser Arg Ser Thr Asp Leu Ser Tyr Ser Glu Ser Asp Leu
 20 25 30

Val Asn Phe Ile Gln Ala Asn Phe Lys Lys Arg Glu Cys Val Phe Phe
 35 40 45

Thr Lys Asp Ser Lys Ala Thr Glu Asn Val Cys Lys Cys Gly Tyr Ala
 50 55 60

Gln Ser Gln His Met Glu Gly Thr Gln Ile Asn Gln Ser Glu Lys Trp
 65 70 75 80

Asn Tyr Lys Lys His Thr Lys Glu Phe Pro Thr Asp Ala Phe Gly Asp
 85 90 95

Ile Gln Phe Glu Thr Leu Gly Lys Lys Gly Lys Tyr Ile Arg Leu Ser
 100 105 110

Cys Asp Thr Asp Ala Glu Ile Leu Tyr Glu Leu Leu Thr Gln His Trp
 115 120 125

His Leu Lys Thr Pro Asn Leu Val Ile Ser Val Thr Gly Gly Ala Lys
 130 135 140

Asn Phe Ala Leu Lys Pro Arg Met Arg Lys Ile Phe Ser Arg Leu Ile
 145 150 155 160

Tyr Ile Ala Gln Ser Lys Gly Ala Trp Ile Leu Thr Gly Gly Thr His
 165 170 175

Tyr Gly Leu Met Lys Tyr Ile Gly Glu Val Val Arg Asp Asn Thr Ile
 180 185 190

Ser Arg Ser Ser Glu Glu Asn Ile Val Ala Ile Gly Ile Ala Ala Trp
 195 200 205

Gly Met Val Ser Asn Arg Asp Thr Leu Ile Arg Asn Cys Asp Ala Glu
 210 215 220

Gly Tyr Phe Leu Ala Gln Tyr Leu Met Asp Asp Phe Thr Arg Asp Pro
 225 230 235 240

Leu Tyr Ile Leu Asp Asn Asn His Thr His Leu Leu Leu Val Asp Asn
 245 250 255

Gly Cys His Gly His Pro Thr Val Glu Ala Lys Leu Arg Asn Gln Leu
 260 265 270

PEPTIDE: 274-339

Glu Lys Tyr Ile Ser Glu Arg Thr Ile Gln Asp Ser Asn Tyr Gly Gly
 275 280 285
 Lys Ile Pro Ile Val Cys Phe Ala Gln Gly Gly Gly Lys Glu Thr Leu
 290 295 300
 Lys Ala Ile Asn Thr Ser Ile Lys Asn Lys Ile Pro Cys Val Val Val
 305 310 315 320
 Glu Gly Ser Gly Gln Ile Ala Asp Val Ile Ala Ser Leu Val Glu Val
 325 330 335
 Glu Asp Ala Leu Thr Ser Ser Ala Val Lys Glu Lys Leu Val Arg Phe
 340 345 350
 Leu Pro Arg Thr Val Ser Arg Leu Pro Glu Glu Glu Thr Glu Ser Trp
 355 360 365
 Ile Lys Trp Leu Lys Glu Ile Leu Glu Cys Ser His Leu Leu Thr Val
 370 375 380
 Ile Lys Met Glu Glu Ala Gly Asp Glu Ile Val Ser Asn Ala Ile Ser
 385 390 395 400
 Tyr Ala Leu Tyr Lys Ala Phe Ser Thr Ser Glu Gln Asp Lys Asp Asn
 405 410 415
 Trp Asn Gly Gln Leu Lys Leu Leu Leu Glu Trp Asn Gln Leu Asp Leu
 420 425 430
 Ala Asn Asp Glu Ile Phe Thr Asn Asp Arg Arg Trp Glu Ser Ala Asp
 435 440 445
 Leu Gln Glu Val Met Phe Thr Ala Leu Ile Lys Asp Arg Pro Lys Phe
 450 455 460
 Val Arg Leu Phe Leu Glu Asn Gly Leu Asn Leu Arg Lys Phe Leu Thr
 465 470 475 480
 His Asp Val Leu Thr Glu Leu Phe Ser Asn His Phe Ser Thr Leu Val
 485 490 495
 Tyr Arg Asn Leu Gln Ile Ala Lys Asn Ser Tyr Asn Asp Ala Leu Leu
 500 505 510
 Thr Phe Val Trp Lys Leu Val Ala Asn Phe Arg Arg Gly Phe Arg Lys
 515 520 525
 Glu Asp Arg Asn Gly Arg Asp Glu Met Asp Ile Glu Leu His Asp Val
 530 535 540
 Ser Pro Ile Thr Arg His Pro Leu Gln Ala Leu Phe Ile Trp Ala Ile
 545 550 555 560

Leu Gln Asn Lys Lys Glu Leu Ser Lys Val Ile Trp Glu Gln Thr Arg
 565 570 575
 Gly Cys Thr Leu Ala Ala Leu Gly Ala Ser Lys Leu Leu Lys Thr Leu
 580 585 590
 Ala Lys Val Lys Asn Asp Ile Asn Ala Ala Gly Glu Ser Glu Glu Leu
 595 600 605
 Ala Asn Glu Tyr Glu Thr Arg Ala Val Glu Leu Phe Thr Glu Cys Tyr
 610 615 620
 Ser Ser Asp Glu Asp Leu Ala Glu Gln Leu Leu Val Tyr Ser Cys Glu
 625 630 635 640
 Ala Trp Gly Gly Leu Glu His His His His His His
 645 650

<210> 819
 <211> 132
 <212> PRT
 <213> Homo sapien

<400> 819
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
 1 5 10 15
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser
 20 25 30
 Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly
 35 40 45
 Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val
 50 55 60
 Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val
 65 70 75 80
 Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala
 85 90 95
 Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp
 100 105 110
 Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu
 115 120 125
 Gly Pro Pro Ala
 130

<210> 820
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>

<223> PCR primer

<400> 820

ggggaattca tgatccggga gaaatttgcc cactgc

36

<210> 821

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 821

gggctcgagt caggagtttg agaccagcct ggc

33

<210> 822

<211> 675

<212> DNA

<213> Homo sapiens

<400> 822

```
atgcattcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccagggtggg 60
cagggaattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
ggcgacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
ggcgacgtga tcaccgcgt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
gcgcttaacg ggcatcatcc cggtgacgtc atctcggtga cctggcaaac caagtcgggc 360
ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt catgatccgg 420
gagaaatttg cccactgcac cgtgctaacc attgcacaca gattgaacac cattattgac 480
agcgacaaga taatggtttt agattcagga agactgaaag aatatgatga gccgtatgtt 540
ttgctgcaaa ataaagagag cctattttac aagatggtgc aacaactggg caaggcagaa 600
gccgtgccc tcaactgaaac agcaaaacag agatgggggtt tcaccatgtt ggccaggctg 660
gtctcaaact cctga 675
```

<210> 823

<211> 291

<212> DNA

<213> Homo sapiens

<400> 823

```
atggggatcc gggagaaatt tgcccactgc accgtgctaa ccattgcaca cagattgaac 60
accattattg acagcgacaa gataatggtt ttagattcag gaagactgaa agaatatgat 120
gagccgtatg ttttgctgca aaataaagag agcctatttt acaagatggt gcaacaactg 180
ggcaaggcag aagccgtgct cctcactgaa acagcaaaac agagatgggg ttccaccatg 240
ttggccaggc tgggtctcaa ctccctcgag caccaccacc accaccactg a 291
```

<210> 824

<211> 1074

<212> DNA

<213> Homo sapiens

<400> 824

```

atgtcagcca ttgagaggggt gtcagaggca atcgtcagca tccgaagaat ccagaccttt 60
ttgctacttg atgagatata acagcgcaac cgtcagctgc cgtcagatgg taaaaagatg 120
gtgcatgtgc aggattttac tgcttttttg gataaggcat cagagacccc aactctacaa 180
ggccttttct ttactgtcag acctggcgaa ttgttagctg tggtcggccc cgtgggagca 240
gggaagtcac cactgttaag tgccgtgctc ggggaattgg cccaagtca cgggctggtc 300
agcgtgcatg gaagaattgc ctatgtgtct cagcagccct ggggtgttctc gggaactctg 360
aggagtaata ttttattttg gaagaaatac gaaaaggaa gatatgaaaa agtcataaag 420
gcttgtgctc tgaaaaagga ttacagctg ttggaggatg gtgatctgac tgtgatagga 480
gatcggggaa ccacgctgag tggagggcag aaagcacggg taaaccttgc aagagcagtg 540
tatcaagatg ctgacatcta tctcctggac gatcctctca gtgcagtaga tgcggaagtt 600
agcagacact tgttcgaact gtgtatttgt caaatTTTgc atgagaagat cacaatttta 660
gtgactcacc agttgcagta cctcaaagct gcaagtcaga ttctgatatt gaaagatggg 720
aaaatggTgc agaaggggac ttacactgag ttcttaaaat ctggtataga ttttggctcc 780
cttttaaaga aggataatga ggaaagtga caacctccag ttccaggaac tcccacacta 840
aggaatcgta ctttctcaga gtcttcgggt tgggtctcaac aatcttctag accctccttg 900
aaagatggTg ctctggagag ccaagataca gagaatgtcc cagttacact atcagaggag 960
aaccgttctg aaggaaaagt tggTTTTcag gcctataaga attacttcag agctggTgct 1020
cactggattg tcttcatttt ccttatttctc gagcaccacc accaccacca ctga 1074

```

<210> 825

<211> 224

<212> PRT

<213> Homo sapiens

<400> 825

```

Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
      5                      10                      15

Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
      20                      25                      30

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
      35                      40                      45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
      50                      55                      60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
      65                      70                      75                      80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
      85                      90                      95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
      100                     105                     110

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
      115                     120                     125

Leu Ala Glu Gly Pro Pro Ala Glu Phe Met Ile Arg Glu Lys Phe Ala
      130                     135                     140

```

His Cys Thr Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp
145 150 155 160

Ser Asp Lys Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp
165 170 175

Glu Pro Tyr Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met
180 185 190

Val Gln Gln Leu Gly Lys Ala Glu Ala Ala Ala Leu Thr Glu Thr Ala
195 200 205

Lys Gln Arg Trp Gly Phe Thr Met Leu Ala Arg Leu Val Ser Asn Ser
210 215 220

<210> 826

<211> 357

<212> PRT

<213> Homo sapiens

<400> 826

Met Ser Ala Ile Glu Arg Val Ser Glu Ala Ile Val Ser Ile Arg Arg
5 10 15

Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile Ser Gln Arg Asn Arg Gln
20 25 30

Leu Pro Ser Asp Gly Lys Lys Met Val His Val Gln Asp Phe Thr Ala
35 40 45

Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr Leu Gln Gly Leu Ser Phe
50 55 60

Thr Val Arg Pro Gly Glu Leu Leu Ala Val Val Gly Pro Val Gly Ala
65 70 75 80

Gly Lys Ser Ser Leu Leu Ser Ala Val Leu Gly Glu Leu Ala Pro Ser
85 90 95

His Gly Leu Val Ser Val His Gly Arg Ile Ala Tyr Val Ser Gln Gln
100 105 110

Pro Trp Val Phe Ser Gly Thr Leu Arg Ser Asn Ile Leu Phe Gly Lys
115 120 125

Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val Ile Lys Ala Cys Ala Leu
130 135 140

Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly Asp Leu Thr Val Ile Gly

145 150 155 160
 Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln Lys Ala Arg Val Asn Leu
 165 170 175
 Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile Tyr Leu Leu Asp Asp Pro
 180 185 190
 Leu Ser Ala Val Asp Ala Glu Val Ser Arg His Leu Phe Glu Leu Cys
 195 200 205
 Ile Cys Gln Ile Leu His Glu Lys Ile Thr Ile Leu Val Thr His Gln
 210 215 220
 Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile Leu Ile Leu Lys Asp Gly
 225 230 235 240
 Lys Met Val Gln Lys Gly Thr Tyr Thr Glu Phe Leu Lys Ser Gly Ile
 245 250 255
 Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn Glu Glu Ser Glu Gln Pro
 260 265 270
 Pro Val Pro Gly Thr Pro Thr Leu Arg Asn Arg Thr Phe Ser Glu Ser
 275 280 285
 Ser Val Trp Ser Gln Gln Ser Ser Arg Pro Ser Leu Lys Asp Gly Ala
 290 295 300
 Leu Glu Ser Gln Asp Thr Glu Asn Val Pro Val Thr Leu Ser Glu Glu
 305 310 315 320
 Asn Arg Ser Glu Gly Lys Val Gly Phe Gln Ala Tyr Lys Asn Tyr Phe
 325 330 335
 Arg Ala Gly Ala His Trp Ile Val Phe Ile Phe Leu Ile Leu Glu His
 340 345 350
 His His His His His
 355

<210> 827

<211> 96

<212> PRT

<213> Homo sapiens

<400> 827

Met Gly Ile Arg Glu Lys Phe Ala His Cys Thr Val Leu Thr Ile Ala
 5 10 15

His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys Ile Met Val Leu Asp
 20 25 30

Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr Val Leu Leu Gln Asn
 35 40 45

Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln Leu Gly Lys Ala Glu
 50 55 60

Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg Trp Gly Phe Thr Met
 65 70 75 80

Leu Ala Arg Leu Val Ser Asn Ser Leu Glu His His His His His His
 85 90 95

<210> 828

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 828

cgcccatggg gatccgggag aaatttgccc actgc

35

<210> 829

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 829

cgccctcgagg gagtttgaga ccagcctggc caaca

35

<210> 830

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 830

gcatggacca tatgtcagcc attgagaggg tgtcagag

38

<210> 831

<211> 34

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 831

ccgctcgaga ataaggaaaa tgaagacaat ccag

34

<210> 832

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 832

gttgaattca tgcacgggcc ccaggtg

27

<210> 833

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 833

cccctcgagt cactatgggtc tgcctcttga

30

<210> 834

<211> 915

<212> DNA

<213> Homo sapiens

<400> 834

```

atgcatacc atcaccatca cacggccgcg tccgataact tccagctgtc ccagggtggg 60
cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
accgttcata tcgggcctac cgccttcctc ggcttggttg ttgtcgacaa caacggcaac 180
ggcgacagag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cgccaccgcg gatggcggac 300
gcgcttaacg ggcatacatc cggtgacgtc atctcggtga cctggcaaac caagtcgggc 360
ggcacgcgta caggaacgtg gacattggcc gagggacccc cggccgaatt catgcacggg 420
ccccagggtg tggcacgctg ctccgagtggt gcttgctcctg ccttggtctgc cacctctgcg 480
ggggtgcgtc tggagggggg ggaccggcca ccaaccttac ccagtcaagg aagtggatgg 540
ccatgttccc acagcctgag tggctgccac ctgatggctg atggagcaaa ggccttagga 600
aaagcagatg gcccttggcc ctaccttttt gttagaagaa ctgatgttcc atgtcctgca 660
gcgagtggag ttggtggctg tgccccagc tcctggcgcg ccctgcgaga ggtgactggt 720
tgctcttttg gccctcttgg ccttgcccag catgcacaag cctcagtgtc actactgtgc 780
tacaaatgga gccatatagg ggaaacgagc agccatctca ggagcaagg gtatgctgcc 840
tttggggggt ccagtccttg cctcaagggt cttatgtcac tgtgggcttc ttggttgtca 900
agaggcagac catag 915

```

<210> 835

<211> 304

<212> PRT

<213> Homo sapiens

<400> 835

```

Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
      5              10              15

Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
      20              25              30

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
      35              40              45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
      50              55              60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
      65              70              75              80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
      85              90              95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
      100             105             110

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
      115             120             125

Leu Ala Glu Gly Pro Pro Ala Glu Phe Met His Gly Pro Gln Val Leu
      130             135             140

Ala Arg Cys Ser Glu Cys Ala Cys Pro Ala Leu Ala Ala Thr Ser Ala
      145             150             155             160

Gly Val Arg Leu Glu Gly Val Asp Arg Pro Pro Thr Leu Pro Ser Gln
      165             170             175

Gly Ser Gly Trp Pro Cys Ser His Ser Leu Ser Gly Cys His Leu Met
      180             185             190

Ala Asp Gly Ala Lys Ala Leu Gly Lys Ala Asp Gly Pro Trp Pro Tyr
      195             200             205

Leu Phe Val Arg Arg Thr Asp Val Pro Cys Pro Ala Ala Ser Glu Val
      210             215             220

Gly Gly Cys Ala Pro Ser Ser Trp Arg Ala Leu Ala Glu Val Thr Gly
      225             230             235             240

Cys Ser Leu Gly Pro Leu Gly Leu Ala Gln His Ala Gln Ala Ser Val
      245             250             255

Leu Leu Leu Cys Tyr Lys Trp Ser His Ile Gly Glu Thr Ser Ser His

```


260 265 270
 Leu Arg Ser Lys Val Tyr Ala Ala Phe Gly Gly Ser Ser Pro Cys Leu
 275 280 285
 Lys Gly Leu Met Ser Leu Trp Ala Ser Trp Leu Ser Arg Gly Arg Pro
 290 295 300

<210> 836
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 836
 cgaagtcacg tggaggccag cctc 24

<210> 837
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 837
 cctgaccgaa ttcattaact ggccctggac 29

<210> 838
 <211> 166
 <212> PRT
 <213> Homo sapiens

<220>
 <221> VARIANT
 <222> (1)...(166)
 <223> Xaa = Any Amino Acid

<400> 838
 Met Gly His His His His His Val Glu Ala Ser Leu Ser Val Arg
 1 5 10 15
 His Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile
 20 25 30
 Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser
 35 40 45
 Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu Val Ser Gly
 50 55 60
 Trp Gly Leu Leu Ala Asn Gly Arg Met Pro Thr Val Leu Gln Cys Val

```

65          70          75          80
Asn Val Ser Val Val Ser Glu Glu Val Cys Ser Lys Leu Tyr Asp Pro
          85          90          95
Leu Tyr His Pro Ser Met Phe Cys Ala Gly Gly Gly Gln Xaa Gln Xaa
          100          105          110
Asp Ser Cys Asn Gly Asp Ser Gly Gly Pro Leu Ile Cys Asn Gly Tyr
          115          120          125
Leu Gln Gly Leu Val Ser Phe Gly Lys Ala Pro Cys Gly Gln Val Gly
          130          135          140
Val Pro Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Glu Trp Ile Glu
145          150          155          160
Lys Thr Val Gln Ala Ser
          165

```

```

<210> 839
<211> 504
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(504)
<223> n = A,T,C or G

```

```

<400> 839
atggggccatc atcatcatca tcacgtggag gccagcctct ccgtacggca cccagagtac      60
aacagaccct tgctcgctaa cgacctcatg ctcatcaagt tggacgaatc cgtgtccgag      120
tctgacacca tccggagcat cagcattgct tcgcagtgcc ctaccgcggg gaactcttgc      180
ctogtttctg gctgggggtct gctgggcgaac ggcagaatgc ctaccgtgct gcagtgcgtg      240
aacgtgtcgg tgggtgtctga ggaggtctgc agtaagctct atgaccogct gtaccacccc      300
agcatgttct gcgcgcggcg agggcaanac cagaangact cctgcaacgg tgactctggg      360
gggcccctga tctgcaacgg gtacttgcag ggccttgtgt ctttcggaaa agccccgtgt      420
ggccaagttg gcgtgccagg tgtctacacc aacctctgca aattcactga gtggatagag      480
aaaaccgtcc aggccagtta atga                                     504

```

```

<210> 840
<211> 21
<212> DNA
<213> Artificial Sequence

```

```

<220>
<223> PCR primer

```

```

<400> 840
ctcagggttc cggagccgcg g                                     21

```

```

<210> 841
<211> 35
<212> DNA
<213> Artificial Sequence

```

```

<220>
<223> PCR primer

```

<400> 841
ctatagaatt cattaccaaa aagctgggct ccagc

35

<210> 842
<211> 241
<212> PRT
<213> Homo sapiens

<400> 842
Met Gln His His His His His His Leu Arg Val Pro Glu Pro Arg Pro
1 5 10 15
Gly Glu Ala Lys Ala Glu Gly Ala Ala Pro Pro Thr Pro Ser Lys Pro
20 25 30
Leu Thr Ser Phe Leu Ile Gln Asp Ile Leu Arg Asp Gly Ala Gln Arg
35 40 45
Gln Gly Gly Arg Thr Ser Ser Gln Arg Gln Arg Asp Pro Glu Pro Glu
50 55 60
Pro Glu Pro Glu Pro Glu Gly Gly Arg Ser Arg Ala Gly Ala Gln Asn
65 70 75 80
Asp Gln Leu Ser Thr Gly Pro Arg Ala Ala Pro Glu Glu Ala Glu Thr
85 90 95
Leu Ala Glu Thr Glu Pro Glu Arg His Leu Gly Ser Tyr Leu Leu Asp
100 105 110
Ser Glu Asn Thr Ser Gly Ala Leu Pro Arg Leu Pro Gln Thr Pro Lys
115 120 125
Gln Pro Gln Lys Arg Ser Arg Ala Ala Phe Ser His Thr Gln Val Ile
130 135 140
Glu Leu Glu Arg Lys Phe Ser His Gln Lys Tyr Leu Ser Ala Pro Glu
145 150 155 160
Arg Ala His Leu Ala Lys Asn Leu Lys Leu Thr Glu Thr Gln Val Lys
165 170 175
Ile Trp Phe Gln Asn Arg Arg Tyr Lys Thr Lys Arg Lys Gln Leu Ser
180 185 190
Ser Glu Leu Gly Asp Leu Glu Lys His Ser Ser Leu Pro Ala Leu Lys
195 200 205
Glu Glu Ala Phe Ser Arg Ala Ser Leu Val Ser Val Tyr Asn Ser Tyr
210 215 220
Pro Tyr Tyr Pro Tyr Leu Tyr Cys Val Gly Ser Trp Ser Pro Ala Phe
225 230 235 240
Trp

<210> 843
<211> 729
<212> DNA
<213> Homo sapiens

<400> 843
atgcagcatc accaccatca ccacctcagg gttccggagc cgcggcccg ggagggcga 60
gcggaggggg ccgcgcgcgc gaccccgctc aagccgctca cgtccttct catccaggac 120
atcctgcggg acggcgcgca gcggcaaggc ggccgcacga gcagccagag acagcgcgac 180
ccggagccgg agccagagcc agagccagag ggaggacgca gccgcgccgg ggcgcagaac 240

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gaccagctga gcaccgggcc ccgcgccgcg ccggatgagg ccgagacgct ggcagagacc 300
gagccagaaa ggcacttggg gtcttatctg ttggactctg aaaacacttc aggcgcctt 360
ccaaggcttc cccaaacccc taagcagccg cagaagcgct cccgagctgc cttctccac 420
actcaggtga tcgagttgga gaggaagttc agccatcaga agtacctgtc ggccccctgaa 480
cgggcccacc tggccaagaa cctcaagctc acggagaccc aagtgaagat atggttccag 540
aacagacgct ataagactaa gcgaaagcag ctctcctcgg agctgggaga cttggagaag 600
cactcctttt tgccggccct gaaagaggag gccttctccc gggcctccct ggtctccgtg 660
tataacagct atccttacta cccatacctg cactgcgtgg gcagctggag cccagctttt 720
tggtaatga 729

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<210> 844

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 844

ctactaagcg ctggagtggag ggatcag

27

<210> 845

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 845

catcgagaat tcactactct ctgactagat gtc

33

<210> 846

<211> 161

<212> PRT

<213> Homo sapiens

<400> 846

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Met Gln His His His His His Ala Gly Val Arg Asp Gln Gly Gln
 1           5           10           15
Gly Ala Arg Trp Pro His Thr Gly Lys Arg Gly Pro Leu Leu Gln Gly
 20           25           30
Leu Thr Trp Ala Thr Gly Gly His Cys Phe Ser Ser Glu Glu Ser Gly
 35           40           45
Ala Val Asp Gly Ala Gly Gln Lys Lys Asp Arg Ala Trp Leu Arg Cys
 50           55           60
Pro Glu Ala Val Ala Gly Phe Pro Leu Gly Ser Asp Cys Arg Glu Gly
 65           70           75           80
Gly Arg Gln Gly Cys Gly Gly Ser Asp Asp Glu Asp Asp Leu Gly Val
 85           90           95
Ala Pro Gly Leu Ala Pro Ala Trp Ala Leu Thr Gln Pro Pro Ser Gln

```

```

          100          105          110
Ser Pro Gly Pro Gln Ser Leu Pro Ser Thr Pro Ser Ser Ile Trp Pro
          115          120          125
Gln Trp Val Ile Leu Ile Thr Glu Leu Thr Ile Pro Ser Pro Ala His
          130          135          140
Gly Pro Pro Trp Leu Pro Asn Ala Leu Glu Arg Gly His Leu Val Arg
145          150          155          160
Glu

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<210> 847
 <211> 489
 <212> DNA
 <213> Homo sapiens

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<400> 847
atgcagcatc accaccatca ccacgctgga gtgagggatc aggggcaggg cgcgagatgg      60
cctcacacag ggaagagagg gccctcctg cagggcctca cctgggccac aggaggacac      120
tgtttttcct ctgaggagtc aggagctgtg gatggtgctg gacagaagaa ggacagggcc      180
tggtcaggt gtccagagtc tgctgctggc ttccctttgg gatcagactg cagggagggg      240
gggcggcagg gttgtggggg gagtgcgat gaggatgacc tgggggtggc tccaggcctt      300
gccctgcct gggccctcac ccagcctccc tcacagtctc ctggccctca gtctctcccc      360
tccactccat cctccatctg gcctcagtgg gtcattctga tcaactgaact gaccataccc      420
agccctgccc acggccctcc atggctcccc aatgccctgg agaggggaca tctagtcaga      480
gagtagtga      489

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<210> 848
 <211> 132
 <212> PRT
 <213> Homo sapiens

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<400> 848
Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
  1          5          10          15
Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile Arg Ser
          20          25          30
Gly Gly Gly Ser Pro Thr Val His Ile Gly Pro Thr Ala Phe Leu Gly
          35          40          45
Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val Gln Arg Val
          50          55          60
Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr Gly Asp Val
65          70          75          80
Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr Ala Met Ala
          85          90          95
Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser Val Asn Trp
          100          105          110
Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr Leu Ala Glu
          115          120          125
Gly Pro Pro Ala
          130

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<210> 849
 <211> 31
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 849
 ggggaattca tcacctatgt gccgcctctg c 31

<210> 850
 <211> 40
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 850
 gggctcgagt cactcgccca cgaaatccgt gtaaaacagc 40

<210> 851
 <211> 1203
 <212> DNA
 <213> Homo sapiens

<400> 851
 atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccagggtggg 60
 cagggaattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
 accgttcata tcgggcctac cgccttcctc ggcttggttg ttgtcgacaa caacggcaac 180
 ggcgacagag tccaacgcgt ggtcgggagc gtcgcggcgg caagtctcgg catctccacc 240
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
 gcgcttaacg ggcatcatcc cggtgacgtc atctcggtga cctggcaaac caagtcgggc 360
 ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt catcacctat 420
 gtgcgcctc tgctgctgga agtgggggta gaggagaagt tcatgaccat ggtgctgggc 480
 attggtccag tgctgggcct ggtctgtgtc ccgctcctag gctcagccag tgaccactgg 540
 cgtggacgct atggccgcgg ccggcccttc atctgggcac tgctccttggg catcctgctg 600
 agcctctttc tcatcccaag ggccggctgg ctagcagggc tgctgtgccc ggatcccagg 660
 cccctggagc tggcactgct catcctgggc gtggggctgc tggacttctg tggccagggtg 720
 tgettcactc cactggaggc cctgctctct gacctcttcc gggacccgga ccactgtcgc 780
 caggcctact ctgtctatgc ctcatgata agtcttgggg gctgcttggg ctacctcctg 840
 cctgccattg actgggacac cagtgccttg gcccctacc tgggcaccca ggaggagtgc 900
 ctctttgggc tgctcaccct catcttcctc acctgcgtag cagccacact gctggtggct 960
 gaggaggcag cgtggggccc caccgagcca gcagaagggc tgtcgggccc ctcttgtcgc 1020
 ccccaactgt gtccatgccg ggcccgttg gctttccgga acctgggggc cctgcttccc 1080
 cggtgcacc agctgtgctg ccgcatgcc cgcacctgc gccggctctt cgtggctgag 1140
 ctgtgcagct ggatggcact catgaccttc acgctgtttt acacggattt cgtgggcgag 1200
 tga 1203

<210> 852
 <211> 400
 <212> PRT

<213> Homo sapiens

<400> 852

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Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
              5                      10                      15

Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
              20                      25                      30

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
              35                      40                      45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
              50                      55                      60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
              65                      70                      75                      80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
              85                      90                      95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
              100                     105                     110

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
              115                     120                     125

Leu Ala Glu Gly Pro Pro Ala Glu Phe Ile Thr Tyr Val Pro Pro Leu
              130                     135                     140

Leu Leu Glu Val Gly Val Glu Glu Lys Phe Met Thr Met Val Leu Gly
              145                     150                     155                     160

Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser Ala
              165                     170                     175

Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe Ile Trp
              180                     185                     190

Ala Leu Ser Leu Gly Ile Leu Leu Ser Leu Phe Leu Ile Pro Arg Ala
              195                     200                     205

Gly Trp Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu
              210                     215                     220

Ala Leu Leu Ile Leu Gly Val Gly Leu Leu Asp Phe Cys Gly Gln Val
              225                     230                     235                     240

Cys Phe Thr Pro Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro
              245                     250                     255

Asp His Cys Arg Gln Ala Tyr Ser Val Tyr Ala Phe Met Ile Ser Leu
              260                     265                     270

```

Gly Gly Cys Leu Gly Tyr Leu Leu Pro Ala Ile Asp Trp Asp Thr Ser
 275 280 285

Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu Glu Cys Leu Phe Gly Leu
 290 295 300

Leu Thr Leu Ile Phe Leu Thr Cys Val Ala Ala Thr Leu Leu Val Ala
 305 310 315 320

Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu Ser Ala
 325 330 335

Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe
 340 345 350

Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys Cys Arg
 355 360 365

Met Pro Arg Thr Leu Arg Arg Leu Phe Val Ala Glu Leu Cys Ser Trp
 370 375 380

Met Ala Leu Met Thr Phe Thr Leu Phe Tyr Thr Asp Phe Val Gly Glu
 385 390 395 400

<210> 853

<211> 20

<212> PRT

<213> Homo sapiens

<400> 853

Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser Ala Cys Asp Val
 5 10 15

Ser Val Arg Val
 20

<210> 854

<211> 60

<212> DNA

<213> Homo sapiens

<400> 854

ctgctccac ctccaccgc gctctgcgg gcctctgcct gtgatgtctc cgtacgtgtg 60

<210> 855

<211> 10

<212> PRT

<213> Homo sapiens

<400> 855

Ala Ser Ala Cys Asp Val Ser Val Arg Val
 5 10

<210> 856
 <211> 30
 <212> DNA
 <213> Homo sapiens

<400> 856
 gcctctgcct gtgatgtctc cgtacgtgtg

30

<210> 857
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 857
 Ala Ser Ala Cys Asp Val Ser Val Arg
 1 5

<210> 858
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 858
 Ser Ala Cys Asp Val Ser Val Arg Val
 5

<210> 859
 <211> 27
 <212> DNA
 <213> Homo sapiens

<400> 859
 tctgcctgtg atgtctccgt acgtgtg

27

<210> 860
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 860
 Gly Ile Gly Pro Val Leu Gly Leu Val Cys Val Pro Leu Leu Gly Ser
 5 10 15

Ala Ser Asp

<210> 861
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 861

Val Pro Pro Leu Leu Leu Glu Val Gly Val Glu Glu Lys Phe Met Thr
 5 10 15

Met Val Leu

<210> 862

<211> 19

<212> PRT

<213> Homo sapiens

<400> 862

Met Val Gln Arg Leu Trp Val Ser Arg Leu Leu Arg His Arg Lys Ala
 5 10 15

Gln Leu Leu

<210> 863

<211> 57

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(57)

<223> n = A,T,C or G

<400> 863

ggcnathggnc cngtntyngg nytngtntgy gtnccnytny tnggnwsngc nwsngay 57

<210> 864

<211> 57

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(57)

<223> n = A,T,C or G

<400> 864

gtnccnccny tnytnytnga rgtnggngtn gargaraart tyatgacnat ggtnytn 57

<210> 865

<211> 57

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)...(57)

<223> n = A,T,C or G

<400> 865

atgggtncarm gnytnrtgggt nwsnmgnytn ytnmgncaym gnaargcnca rytnytn 57

<210> 866

<211> 9

<212> PRT

<213> Homo sapiens

<400> 866

Val Leu Gln Cys Val Asn Val Ser Val
1 5

<210> 867

<211> 9

<212> PRT

<213> Homo sapiens

<400> 867

Arg Met Pro Thr Val Leu Gln Cys Val
1 5

<210> 868

<211> 9

<212> PRT

<213> Homo sapiens

<400> 868

Asn Leu Cys Lys Phe Thr Glu Trp Ile
1 5

<210> 869

<211> 9

<212> PRT

<213> Homo sapiens

<400> 869

Met Leu Ile Lys Leu Asp Glu Ser Val
1 5

<210> 870

<211> 9

<212> PRT

<213> Homo sapiens

<400> 870

Leu Leu Ala Asn Asp Leu Met Leu Ile
1 5

<210> 871

<211> 10
 <212> PRT
 <213> Homo sapiens

<400> 871
 Leu Leu Ala Asn Gly Arg Met Pro Thr Val
 1 5 10

<210> 872
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 872
 Leu Met Leu Ile Lys Leu Asp Glu Ser Val
 1 5 10

<210> 873
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 873
 Val Leu Gln Cys Val Asn Val Ser Val Val
 1 5 10

<210> 874
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 874
 Gly Leu Leu Ala Asn Gly Arg Met Pro Thr
 1 5 10

<210> 875
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 875
 Thr Val Leu Gln Cys Val Asn Val Ser Val
 1 5 10

<210> 876
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 876
 Gly Val Leu Val His Pro Gln Trp Val
 1 5

<210> 877

<211> 9
 <212> PRT
 <213> Homo sapiens

<400> 877
 Val Leu Val His Pro Gln Trp Val Leu
 1 5

<210> 878
 <211> 1195
 <212> DNA
 <213> Homo sapiens

<400> 878
 ccgagactca cggcgaagct aaggcgaaga gtgggtggct gaagccatac tattttatag 60
 aattaatgga aagcagaaaa gacatcacaa accaagaaga actttggaaa atgaagccta 120
 ggagaaatgt agaagaagac gattatttgc ataaggacac gggagagacc agcatgctaa 180
 aaagacctgt gcttttgcac ttgcaccaa cagcccatgc tgatgaattt gactgccctt 240
 cagaacttca gcacacacag gaactctttc cacagtggca cttgccaatt aaaatagctg 300
 ctattatagc atctctgact tttctttaca ctctctgag ggaagtaatt caccctttag 360
 caacttccca tcaacaatat ttttataaaa ttccaatcct ggcatcaaac aaagtcttgc 420
 caatggtttc catcactctc ttggcattgg tttacctgcc aggtgtgata gcagcaattg 480
 tccaacttca taatggaacc aagtataaga agtttccaca ttggttgat aagtggatgt 540
 taacaagaaa gcagtttggg cttctcagtt tcttttttgc tgtactgcat gcaatttata 600
 gtctgtctta cccaatgagg cgatcctaca gatacaagtt gctaaactgg gcatatcaac 660
 aggtccaaca aaataaagaa gatgcctgga ttgagcatga tgtttggaga atggagattt 720
 atgtgtctct gggaattgtg ggattggcaa tactggctct gttggctgtg acatctattc 780
 catctgtgag tgactctttg acatggagag aatttcacta tattcagagc aagctaggaa 840
 ttgtttccct tctactgggc acaatacacg cattgatttt tgcoctggaat aagtggatag 900
 atataaaaca atttgtatgg tatacacctc caacttttat gatagctgtt ttccttccaa 960
 ttgttgtcct gatattttaa agcatactat tcctgccatg cttgaggaag aagatactga 1020
 agattagaca tggttgggaa gacgtcacca aaattaacaa aactgagata tgttcccagt 1080
 tgtagaatta ctgtttacac acatttttgt tcaatattga tatattttat caccaacatt 1140
 tcaagtttgt atttgttaat aaaatgatta ttcaaggaaa aaaaaaaaaa aaaaa 1195

<210> 879
 <211> 339
 <212> PRT
 <213> Homo sapiens

<400> 879
 Met Glu Ser Arg Lys Asp Ile Thr Asn Gln Glu Glu Leu Trp Lys Met
 5 10 15

Lys Pro Arg Arg Asn Leu Glu Glu Asp Asp Tyr Leu His Lys Asp Thr
 20 25 30

Gly Glu Thr Ser Met Leu Lys Arg Pro Val Leu Leu His Leu His Gln
 35 40 45

Thr Ala His Ala Asp Glu Phe Asp Cys Pro Ser Glu Leu Gln His Thr
 50 55 60

Gln Glu Leu Phe Pro Gln Trp His Leu Pro Ile Lys Ile Ala Ala Ile
 65 70 75 80
 Ile Ala Ser Leu Thr Phe Leu Tyr Thr Leu Leu Arg Glu Val Ile His
 85 90 95
 Pro Leu Ala Thr Ser His Gln Gln Tyr Phe Tyr Lys Ile Pro Ile Leu
 100 105 110
 Val Ile Asn Lys Val Leu Pro Met Val Ser Ile Thr Leu Leu Ala Leu
 115 120 125
 Val Tyr Leu Pro Gly Val Ile Ala Ala Ile Val Gln Leu His Asn Gly
 130 135 140
 Thr Lys Tyr Lys Lys Phe Pro His Trp Leu Asp Lys Trp Met Leu Thr
 145 150 155 160
 Arg Lys Gln Phe Gly Leu Leu Ser Phe Phe Phe Ala Val Leu His Ala
 165 170 175
 Ile Tyr Ser Leu Ser Tyr Pro Met Arg Arg Ser Tyr Arg Tyr Lys Leu
 180 185 190
 Leu Asn Trp Ala Tyr Gln Gln Val Gln Gln Asn Lys Glu Asp Ala Trp
 195 200 205
 Ile Glu His Asp Val Trp Arg Met Glu Ile Tyr Val Ser Leu Gly Ile
 210 215 220
 Val Gly Leu Ala Ile Leu Ala Leu Leu Ala Val Thr Ser Ile Pro Ser
 225 230 235 240
 Val Ser Asp Ser Leu Thr Trp Arg Glu Phe His Tyr Ile Gln Ser Lys
 245 250 255
 Leu Gly Ile Val Ser Leu Leu Leu Gly Thr Ile His Ala Leu Ile Phe
 260 265 270
 Ala Trp Asn Lys Trp Ile Asp Ile Lys Gln Phe Val Trp Tyr Thr Pro
 275 280 285
 Pro Thr Phe Met Ile Ala Val Phe Leu Pro Ile Val Val Leu Ile Phe
 290 295 300
 Lys Ser Ile Leu Phe Leu Pro Cys Leu Arg Lys Lys Ile Leu Lys Ile
 305 310 315 320
 Arg His Gly Trp Glu Asp Val Thr Lys Ile Asn Lys Thr Glu Ile Cys
 325 330 335
 Ser Gln Leu

<210> 880
 <211> 2172
 <212> DNA
 <213> Homo sapiens

<400> 880
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 aaaatattgg aattttattc atcttaaaaa ttggacccgg ccttatttac catctttaat 120
 ccatttttagt actatgggtg agtacatgga attgaagtct ggcttaaadc ttcagaaaag 180
 tatatatcta ttttatttta tttttttgag acagagtctc gctgtgtcac ccaggctgga 240
 gtgcggtgcc acaatccttg ctcaactgcaa cctctgagtc ccaggttcaa gcgatactca 300
 tgcctcggcc tcctgagtag ctgggactac aggcggtgcac caccacatct ggctaactct 360
 tttttgtatt tttagtagag acggggtttc actgtggtct ccactctctg acctcgtgat 420
 ccgcctgcct cccaaagtgc tgggattaca ggcagtgacc accgcacaca gctgggactg 480
 ggtaatttat aaagaaaaga ggtttaatga ctacacagttc cgcagtggtg gagaggcctc 540
 aggaaactta caatcatggt ggaaggcgaa ggggaagcaa ggcacgtctt acatgggtggc 600
 aggagagaac gagtgagggg ggagactgcc acaaactttt tttttttgag acaagagtct 660
 ggccctgttg cccaggctgg agtgacgtgg catgatctca gctcactgca acctctgcct 720
 cacaggttca agcaattctc atgcctcagc ctcccgcata gctgggacca cagggtatgca 780
 ccaccacacc tagctaattt ttgtagtttt agtagagatg ggggtctcact atgttgctca 840
 ggctgggtcta aaactcctgg gctccagcaa tccgcctgcc ttggcctccc aaagtgcctg 900
 ggttacaggc ataagccacc acatccagcc tgccacatac ttttaaaacta tcagggtctca 960
 tgagaactca tgcactatca caagaatagc atggggaaaaa tcccccccat aatccaatca 1020
 cctcccacca ggtctcctcc gacacgtggg attgggtggg gacacagagc caaacccgat 1080
 cagatgctgc aggggctggg gacactgaga ccactcagac ctgggtgtctc tgtcactctt 1140
 ctgggctctg tctgtctcca ggacctccct ccccttccat ggtatagaag gaaagtgtctg 1200
 taaggtgcaa attgcacagg aactccttaa gacatacatc atccactcag cagtttttagg 1260
 ttgcagagca aatggagtgg aaggaacaga aatttcctgt gcacccctcc ccgtgtgtctc 1320
 cgccatatcg gcatcctgca tccagagtgg tggactggtt acaggctatg aacctacact 1380
 gatgcggcac caccaccagc agtccacggg ttatgttggg tcacatttac tcttgctgtg 1440
 gtatgggtcta taggtttgga cagatgtccg ataactcctt ttacattttg gcatccttgg 1500
 gtagctcgtc ttgtaggaat ggacttgctt caaagtggag gcaggcagat ccttcagacg 1560
 ggtatatgga gccctgtttt cagttgcttt tctaattctc tcttatcggt tacctcaaaa 1620
 tcttcctgag gtctcgcttc cttttaaaaa ccttgtctac tttgcagcat cactctgaca 1680
 ctccattgat tcctcagcac ctactgacta cacggttagg agtgcaaggg tagaattcat 1740
 gttttattca tctttgggtc tgtagcaccg agcaaagtgc tcagtaaatg cgcagtaatt 1800
 gatttgacct ctgaacaaat acacactgta ctaagaatct acacaccgaa agacaaaaac 1860
 aagacaaatt tgagtgtcac aggtgtcacg cttggcatca cacatgtgcc tgtgtattcc 1920
 tctaggtggt taccaggagc tctgccactg catgtccact agtgacgggt tcgctccacc 1980
 accccagctg ggtagccgct gctctcacat aagggttcca attaaaattg ccaggaataa 2040
 attccccggg actttgactt ctcaagagct aagaagggtt gctgagtatt ctggcatgat 2100
 gtttgggtgat caaacaactg ctggccaaaa atgatgagta tttccccctc ttgctgaaga 2160
 tgtgtcccat ac 2172

<210> 881
 <211> 2455
 <212> DNA
 <213> Homo sapiens

<400> 881
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 aggggtaggc actggtttgt actcctggga atacaggagt acaccagaat ttattttctgc 120

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<210> 882

<211> 2455

<212> DNA

<213> Homo sapiens

<400> 882

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<210> 883
<211> 62
<212> PRT
<213> Homo sapiens
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His Gly Gly Arg Arg Arg Gly Ser Lys Ala Arg Leu Thr Trp Trp Gln
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Glu Arg Thr Ser Glu Gly Gly Asp Cys His Lys Leu Phe Phe Phe Glu
35 40 45

<210> 884

<211> 135
 <212> PRT
 <213> Homo sapiens

<400> 884

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Met Val Glu Gly Glu Gly Glu Ala Arg His Val Leu His Gly Gly Arg
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Arg Glu Arg Val Arg Gly Glu Thr Ala Thr Asn Phe Phe Phe Leu Arg
              20                      25                      30

Gln Glu Ser Gly Pro Val Ala Gln Ala Gly Val Gln Trp His Asp Leu
              35                      40                      45

Ser Ser Leu Gln Pro Leu Pro His Arg Phe Lys Gln Phe Ser Cys Leu
              50                      55                      60

Ser Leu Pro His Ser Trp Asp His Arg Tyr Ala Pro Pro His Leu Ala
              65                      70                      75                      80

Asn Phe Cys Ser Phe Ser Arg Asp Gly Val Ser Leu Cys Cys Ser Gly
              85                      90                      95

Trp Ser Lys Thr Pro Gly Leu Gln Gln Ser Ala Cys Leu Gly Leu Pro
              100                      105                      110

Lys Cys Trp Gly Tyr Arg His Lys Pro Pro His Pro Ala Cys His Ile
              115                      120                      125

Leu Leu Asn Tyr Gln Val Ser
              130                      135

```

<210> 885
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 885

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Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro Ile Ile Gln
              5                      10                      15

Ser Pro Pro Thr Arg Ser Pro Pro Thr Arg Gly Ile Gly Trp Gly His
              20                      25                      30

Arg Ala Lys Pro Tyr Gln Met Leu Gln Gly Leu Gly Thr Leu Arg Pro
              35                      40                      45

Leu Arg Pro Gly Val Ser Val Thr Leu Leu Gly Ser Val Cys Leu Gln
              50                      55                      60

Asp Leu Pro Pro Leu Pro Trp Tyr Arg Arg Lys Val Leu
              65                      70                      75

```

<210> 886
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 886
 Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly
 5 10 15
 Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
 20 25 30
 Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
 35 40 45
 Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
 50 55 60

<210> 887
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 887
 Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
 5 10 15
 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
 20 25 30
 Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
 35 40 45
 Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
 50 55 60
 Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
 65 70 75

<210> 888
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 888
 Met Val Lys Ser Arg Phe Thr Lys Asn Thr Lys Ile Thr Gln Ala Trp
 5 10 15
 Trp Arg Ala Pro Val Ile Pro Gly Thr Arg Glu Ala Glu Gly Gly Glu
 20 25 30
 Ser Leu Glu Pro Gly Arg Leu Arg Glu Glu Asn Arg Leu Asn Pro Gly

35 40 45
 Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp
 50 55 60

Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys
 65 70 75

<210> 889
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 889
 Met Leu Leu His Ser Ser Leu Val Asn Arg Ala Arg Leu Cys Leu Lys
 5 10 15

Asn Lys Gln Ile Asn Lys Gln Thr Asn Lys Thr Glu Arg Phe Cys Cys
 20 25 30

Asn Val Gln Gly Ala Ile Cys Ser Phe Lys Lys Ile Ile Phe Gly Gln
 35 40 45

Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala Lys Val
 50 55 60

Gly Gly Ser Phe Glu Val Arg Ser Leu Arg Ser Ala Trp Pro Thr Trp
 65 70 75 80

<210> 890
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 890
 Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro His Asn Pro
 5 10 15

Ile Thr Ser His Gln Val Ser Ser Asp Thr Trp Asp Trp Val Gly Thr
 20 25 30

Gln Ser Gln Thr Val Ser Asp Ala Ala Gly Ala Gly Asp Thr Glu Thr
 35 40 45

Thr Gln Thr Trp Cys Leu Cys His Ser Ser Gly Leu Cys Leu Ser Pro
 50 55 60

Gly Pro Pro Ser Pro Ser Met Val
 65 70

<210> 891

<211> 77
 <212> PRT
 <213> Homo sapiens

<400> 891
 Met His Tyr His Lys Asn Ser Met Gly Lys Ile Pro Pro Ile Ile Gln
 5 10 15
 Ser Pro Pro Thr Arg Ser Pro Pro Thr Arg Gly Ile Gly Trp Gly His
 20 25 30
 Arg Ala Lys Pro Tyr Gln Met Leu Gln Gly Leu Gly Thr Leu Arg Pro
 35 40 45
 Leu Arg Pro Gly Val Ser Val Thr Leu Leu Gly Ser Val Cys Leu Gln
 50 55 60
 Asp Leu Pro Pro Leu Pro Trp Tyr Arg Arg Lys Val Leu
 65 70 75

<210> 892
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 892
 Met Leu Val His Ile Tyr Ser Cys Cys Gly Met Val Tyr Arg Phe Gly
 5 10 15
 Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
 20 25 30
 Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
 35 40 45
 Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
 50 55 60

<210> 893
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 893
 Met Cys Leu Cys Ile Pro Leu Gly Gly Tyr Gln Glu Leu Cys His Cys
 5 10 15
 Met Ser Thr Ser Asp Gly Phe Ala Pro Pro Pro Gln Leu Gly Ser Arg
 20 25 30
 Cys Ser His Ile Arg Gly Pro Ile Lys Ile Ala Arg Asn Lys Phe Pro
 35 40 45

Arg Thr Leu Thr Ser Gln Glu Leu Arg Arg Phe Ala Glu Tyr Ser Gly
50 55 60

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
65 70 75

<210> 894

<211> 2479

<212> DNA

<213> Homo sapiens

<400> 894

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<210> 895

<211> 492

<212> PRT

<213> Homo sapiens

<400> 895

Met Ala Leu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu
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Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
20 25 30

Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
35 40 45

Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
50 55 60

Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
65 70 75 80

Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
85 90 95

Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys
100 105 110

Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn
115 120 125

Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp
130 135 140

Glu Asn Arg Cys Val Arg Leu Tyr Gly Pro Asn Phe Ile Leu Gln Met
145 150 155 160

Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp
165 170 175

Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn
180 185 190

Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser
195 200 205

Phe Met Lys Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys
210 215 220

Leu Tyr His Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg
225 230 235 240

Cys Leu Ala Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile
 245 250 255
 Val Gly Gly Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser
 260 265 270
 Leu His Val Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro
 275 280 285
 Glu Trp Ile Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn Asn
 290 295 300
 Pro Trp His Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met
 305 310 315 320
 Phe Tyr Gly Ala Gly Tyr Gln Val Gln Lys Val Ile Ser His Pro Asn
 325 330 335
 Tyr Asp Ser Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln
 340 345 350
 Lys Pro Leu Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn
 355 360 365
 Pro Gly Met Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp
 370 375 380
 Gly Ala Thr Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala
 385 390 395 400
 Lys Val Leu Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr
 405 410 415
 Asp Asn Leu Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly
 420 425 430
 Asn Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser
 435 440 445
 Asn Asn Asn Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly
 450 455 460
 Cys Ala Lys Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe
 465 470 475 480
 Thr Asp Trp Ile Tyr Arg Gln Met Lys Ala Asn Gly
 485 490

<210> 896

<211> 683

<212> DNA

<213> Homo sapiens

<400> 896
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atgacagcgg atccaccagc ttt 683

<210> 897
<211> 209
<212> PRT
<213> Homo sapiens

<400> 897
Met Ala Leu Asn Ser Gly Ser Pro Pro Ala Ile Gly Pro Tyr Tyr Glu
1 5 10 15
Asn His Gly Tyr Gln Pro Glu Asn Pro Tyr Pro Ala Gln Pro Thr Val
20 25 30
Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
35 40 45
Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
50 55 60
Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
65 70 75 80
Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
85 90 95
Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys
100 105 110
Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn
115 120 125
Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp
130 135 140
Glu Asn Arg Cys Val Arg Leu Tyr Gly Pro Asn Phe Ile Leu Gln Met
145 150 155 160
Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp
165 170 175
Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn
180 185 190
Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser
195 200 205
Phe

<210> 898

<211> 27
 <212> PRT
 <213> Homo sapiens

<400> 898
 Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly Thr
 1 5 10 15
 Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg
 20 25

<210> 899
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 899
 ggatccgccg ccaccatgtc actttctagc ctgct 35

<210> 900
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 900
 gtcgactcag ctggaccaca gccgcag 27

<210> 901
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 901
 ggatccgccg ccaccatggg ctgcaggctg ctct 34

<210> 902
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 902
 gtcgactcag aaatcctttc tcttgac 27

<210> 903
 <211> 936
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...()
 <223> n = A,T,C or G

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<400> 903
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aaatgtgaac aacatctggg tcataacgct atgtattggt acaagcaaag tgctaagaag 180
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cagccagaag actcggccct gtatctctgc gccagcagcc aagaccggac aagcagctcc 360
tacgagcagt acttcggggc gggcaccagg ctacagggtc cagaggacct gaaaaacgtg 420
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<210> 904
 <211> 834
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...()
 <223> n = A,T,C or G

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ctggactgca catatgacac cagtgatcaa agttatggc tcttctggtg caagcagccc 180
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gacaccttct tcccagccc agaaagtcc tgtgatgtca agctggtcga gaaaagcttt 720
gaaacagata cgaacctaaa ctttcaaaac ctgtcagtga ttgggttccg aatcctcctc 780
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834

<210> 905

<211> 311

<212> PRT

<213> Homo sapiens

<220>

<221> variant

<222> (1)...(311)

<223> Xaa = Any amino acid

<400> 905

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5 10 15

Val Pro Met Glu Thr Gly Val Thr Gln Thr Pro Arg His Leu Val Met
20 25 30

Gly Met Thr Asn Lys Lys Ser Leu Lys Cys Glu Gln His Leu Gly His
35 40 45

Asn Ala Met Tyr Trp Tyr Lys Gln Ser Ala Lys Lys Pro Leu Glu Leu
50 55 60

Met Phe Val Tyr Ser Leu Glu Glu Arg Val Glu Asn Asn Ser Val Pro
65 70 75 80

Ser Arg Phe Ser Pro Glu Cys Pro Asn Ser Ser His Leu Phe Leu His
85 90 95

Leu His Thr Leu Gln Pro Glu Asp Ser Ala Leu Tyr Leu Cys Ala Ser
100 105 110

Ser Gln Asp Arg Thr Ser Ser Ser Tyr Glu Gln Tyr Phe Gly Pro Gly
115 120 125

Thr Arg Leu Thr Val Thr Glu Asp Leu Lys Asn Val Phe Pro Pro Glu
130 135 140

Val Ala Val Phe Glu Pro Ser Glu Ala Glu Ile Ser His Thr Gln Lys
145 150 155 160

Ala Thr Leu Val Cys Leu Ala Thr Gly Phe Tyr Pro Asp His Val Glu
165 170 175

Leu Ser Trp Trp Val Asn Gly Lys Glu Val His Ser Gly Val Ser Thr
180 185 190

Asp Pro Gln Pro Leu Lys Glu Gln Pro Ala Leu Asn Asp Ser Arg Tyr
195 200 205

Cys Leu Ser Ser Arg Leu Arg Val Ser Ala Thr Phe Trp Gln Asn Pro
210 215 220

Arg Asn His Phe Arg Cys Gln Val Gln Phe Tyr Gly Leu Ser Glu Asn
225 230 235 240

Asp Glu Trp Thr Gln Asp Arg Ala Lys Pro Val Thr Gln Ile Val Ser
245 250 255

Ala Glu Ala Trp Gly Arg Ala Asp Cys Gly Phe Thr Ser Glu Ser Tyr
260 265 270

Gln Gln Gly Val Leu Ser Ala Thr Ile Leu Tyr Glu Ile Leu Leu Gly
275 280 285

Lys Ala Thr Leu Tyr Ala Val Leu Val Ser Ala Leu Val Leu Met Ala
290 295 300

Met Val Lys Arg Lys Asp Phe
305 310

<210> 906

<211> 277

<212> PRT

<213> Homo sapiens

<400> 906

Met Ser Leu Ser Ser Leu Leu Lys Val Val Thr Ala Ser Leu Trp Leu
5 10 15

Gly Pro Gly Ile Ala Gln Lys Ile Thr Gln Thr Gln Pro Gly Met Phe
20 25 30

Val Gln Glu Lys Glu Ala Val Thr Leu Asp Cys Thr Tyr Asp Thr Ser
35 40 45

Asp Gln Ser Tyr Gly Leu Phe Trp Tyr Lys Gln Pro Ser Ser Gly Glu
50 55 60

Met Ile Phe Leu Ile Tyr Gln Gly Ser Tyr Asp Glu Gln Asn Ala Thr
65 70 75 80

Glu Gly Arg Tyr Ser Leu Asn Phe Gln Lys Ala Arg Lys Ser Ala Asn
85 90 95

Leu Val Ile Ser Ala Ser Gln Leu Gly Asp Ser Ala Met Tyr Phe Cys
100 105 110

Ala Met Arg Glu Gly Ala Gly Gly Gly Asn Lys Leu Thr Phe Gly Thr
115 120 125

Gly Thr Gln Leu Lys Val Glu Leu Asn Ile Gln Asn Pro Asp Pro Ala
130 135 140

Val Tyr Gln Leu Arg Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu

145 150 155 160
 Phe Thr Asp Phe Asp Ser Gln Thr Asn Val Ser Gln Ser Lys Asp Ser
 165 170 175
 Asp Val Tyr Ile Thr Asp Lys Thr Val Leu Asp Met Arg Ser Met Asp
 180 185 190
 Phe Lys Ser Asn Ser Ala Val Ala Trp Ser Asn Lys Ser Asp Phe Ala
 195 200 205
 Cys Ala Asn Ala Phe Asn Asn Ser Ile Ile Pro Glu Asp Thr Phe Phe
 210 215 220
 Pro Ser Pro Glu Ser Ser Cys Asp Val Lys Leu Val Glu Lys Ser Phe
 225 230 235 240
 Glu Thr Asp Thr Asn Leu Asn Phe Gln Asn Leu Ser Val Ile Gly Phe
 245 250 255
 Arg Ile Leu Leu Leu Lys Val Ala Gly Phe Asn Leu Leu Met Thr Leu
 260 265 270
 Arg Leu Trp Ser Ser
 275

<210> 907

<211> 1536

<212> DNA

<213> Homo sapiens

<400> 907

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 atgtttcagc acctgatgca gaagcggaag cacacccagt ggacgtatgg accactgacc 180
 tcgactctct atgacctcac agagatcgac tcctcagggg atgagcagtc cctgctggaa 240
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gacaggcaag atctcaaccg gcagcggatc caacgctacg cacaggcctt ccacacccgg 1320
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tggaagaggc ttcggcaagg gaccctgagg agagacctgc gtgggataat caacaggggt 1500
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<210> 908

<211> 1533

<212> DNA

<213> Homo sapiens

<400> 908

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atgtttcagc acctgatgca gaagcgggag cacaccagtg ggacgtatgg accactgacc 180
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gagctggtga gcctcaagtg gaagcggtag gggcgccgt acttctgcat gctgggtgcc 360
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aggaccaata accgcacgag ccccgggac aacacctct tacagcagaa gctacttcag 480
gaagcctaca tgaccctaa ggacgatatc cggctggtcg gggagctggg gactgtcatt 540
ggggctatca tcatcctgct ggtagagggt ccagacatct tcagaatggg ggtcactcgc 600
ttctttggac agaccatcct tggggccca tccatgtcc tcatcatcac ctatgccttc 660
atggtgctgg tgaccatggt gatcggtctc atcagtgcc gggggagggt ggtacctatg 720
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<210> 909

<211> 511

<212> PRT

<213> Homo sapiens

<400> 909

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Met Tyr Asn Leu Leu Leu Ser Tyr Asp Arg His Gly Asp His Leu Gln
          5                      10                      15

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Pro Leu Asp Leu Val Pro Asn His Gln Gly Leu Thr Pro Phe Lys Leu
          20                      25                      30

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Ala Gly Val Glu Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys
          35                      40                      45

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Arg Lys His Thr Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr
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 Asp Leu Thr Glu Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu
 65 70 75 80
 Leu Ile Ile Thr Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln
 85 90 95
 Thr Pro Val Lys Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg
 100 105 110
 Pro Tyr Phe Cys Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys
 115 120 125
 Phe Thr Met Cys Cys Ile Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn
 130 135 140
 Arg Thr Ser Pro Arg Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln
 145 150 155 160
 Glu Ala Tyr Met Thr Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu
 165 170 175
 Val Thr Val Ile Gly Ala Ile Ile Ile Leu Leu Val Glu Val Pro Asp
 180 185 190
 Ile Phe Arg Met Gly Val Thr Arg Phe Phe Gly Gln Thr Ile Leu Gly
 195 200 205
 Gly Pro Phe His Val Leu Ile Ile Thr Tyr Ala Phe Met Val Leu Val
 210 215 220
 Thr Met Val Met Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met
 225 230 235 240
 Ser Phe Ala Leu Val Leu Gly Trp Cys Asn Val Met Tyr Phe Ala Arg
 245 250 255
 Gly Phe Gln Met Leu Gly Pro Phe Thr Ile Met Ile Gln Lys Met Ile
 260 265 270
 Phe Gly Asp Leu Met Arg Phe Cys Trp Leu Met Ala Val Val Ile Leu
 275 280 285
 Gly Phe Ala Ser Ala Phe Tyr Ile Ile Phe Gln Thr Glu Asp Pro Glu
 290 295 300
 Glu Leu Gly His Phe Tyr Asp Tyr Pro Met Ala Leu Phe Ser Thr Phe
 305 310 315 320
 Glu Leu Phe Leu Thr Ile Ile Asp Gly Pro Ala Asn Tyr Asn Val Asp
 325 330 335

Leu Pro Phe Met Tyr Ser Ile Thr Tyr Ala Ala Phe Ala Ile Ile Ala
340 345 350

Thr Leu Leu Met Leu Asn Leu Leu Ile Ala Met Met Gly Asp Thr His
355 360 365

Trp Arg Val Ala His Glu Arg Asp Glu Leu Trp Arg Ala Gln Ile Val
370 375 380

Ala Thr Thr Val Met Leu Glu Arg Lys Leu Pro Arg Cys Leu Trp Pro
385 390 395 400

Arg Ser Gly Ile Cys Gly Arg Glu Tyr Gly Leu Gly Asp Arg Trp Phe
405 410 415

Leu Arg Val Glu Asp Arg Gln Asp Leu Asn Arg Gln Arg Ile Gln Arg
420 425 430

Tyr Ala Gln Ala Phe His Thr Arg Gly Ser Glu Asp Leu Asp Lys Asp
435 440 445

Ser Val Glu Lys Leu Glu Leu Gly Cys Pro Phe Ser Pro His Leu Ser
450 455 460

Leu Pro Met Pro Ser Val Ser Arg Ser Thr Ser Arg Ser Ser Ala Asn
465 470 475 480

Trp Glu Arg Leu Arg Gln Gly Thr Leu Arg Arg Asp Leu Arg Gly Ile
485 490 495

Ile Asn Arg Gly Leu Glu Asp Gly Glu Ser Trp Glu Tyr Gln Ile
500 505 510

<210> 910

<211> 134

<212> PRT

<213> Homo sapiens

<400> 910

Met Tyr Asn Leu Leu Leu Ser Tyr Asp Arg His Gly Asp His Leu Gln
5 10 15

Pro Leu Asp Leu Val Pro Asn His Gln Gly Leu Thr Pro Phe Lys Leu
20 25 30

Ala Gly Val Glu Gly Asn Thr Val Met Phe Gln His Leu Met Gln Lys
35 40 45

Arg Lys His Thr Gln Trp Thr Tyr Gly Pro Leu Thr Ser Thr Leu Tyr
50 55 60

Asp Leu Thr Glu Ile Asp Ser Ser Gly Asp Glu Gln Ser Leu Leu Glu
65 70 75 80

Leu Ile Ile Thr Thr Lys Lys Arg Glu Ala Arg Gln Ile Leu Asp Gln
85 90 95

Thr Pro Val Lys Glu Leu Val Ser Leu Lys Trp Lys Arg Tyr Gly Arg
100 105 110

Pro Tyr Phe Cys Met Leu Gly Ala Ile Tyr Leu Leu Tyr Ile Ile Cys
115 120 125

Phe Thr Met Cys Cys Ile
130

<210> 911

<211> 55

<212> PRT

<213> Homo sapiens

<400> 911

Ala Tyr Arg Pro Leu Lys Pro Arg Thr Asn Asn Arg Thr Ser Pro Arg
5 10 15

Asp Asn Thr Leu Leu Gln Gln Lys Leu Leu Gln Glu Ala Tyr Met Thr
20 25 30

Pro Lys Asp Asp Ile Arg Leu Val Gly Glu Leu Val Thr Val Ile Gly
35 40 45

Ala Ile Ile Ile Leu Leu Val
50 55

<210> 912

<211> 39

<212> PRT

<213> Homo sapiens

<400> 912

Glu Val Pro Asp Ile Phe Arg Met Gly Val Thr Arg Phe Phe Gly Gln
5 10 15

Thr Ile Leu Gly Gly Pro Phe His Val Leu Ile Ile Thr Tyr Ala Phe
20 25 30

Met Val Leu Val Thr Met Val
35

<210> 913

<211> 19

<212> PRT

<213> Homo sapiens

<400> 913

Met Arg Leu Ile Ser Ala Ser Gly Glu Val Val Pro Met Ser Phe Ala
 5 10 15

Leu Val Leu

<210> 914

<211> 52

<212> PRT

<213> Homo sapiens

<400> 914

Gly Trp Cys Asn Val Met Tyr Phe Ala Arg Gly Phe Gln Met Leu Gly
 5 10 15

Pro Phe Thr Ile Met Ile Gln Lys Met Ile Phe Gly Asp Leu Met Arg
 20 25 30

Phe Cys Trp Leu Met Ala Val Val Ile Leu Gly Phe Ala Ser Ala Phe
 35 40 45

Tyr Ile Ile Phe
 50

<210> 915

<211> 213

<212> PRT

<213> Homo sapiens

<400> 915

Gln Thr Glu Asp Pro Glu Glu Leu Gly His Phe Tyr Asp Tyr Pro Met
 5 10 15

Ala Leu Phe Ser Thr Phe Glu Leu Phe Leu Thr Ile Ile Asp Gly Pro
 20 25 30

Ala Asn Tyr Asn Val Asp Leu Pro Phe Met Tyr Ser Ile Thr Tyr Ala
 35 40 45

Ala Phe Ala Ile Ile Ala Thr Leu Leu Met Leu Asn Leu Leu Ile Ala
 50 55 60

Met Met Gly Asp Thr His Trp Arg Val Ala His Glu Arg Asp Glu Leu
 65 70 75 80

Trp Arg Ala Gln Ile Val Ala Thr Thr Val Met Leu Glu Arg Lys Leu
 85 90 95

Pro Arg Cys Leu Trp Pro Arg Ser Gly Ile Cys Gly Arg Glu Tyr Gly
 100 105 110

Leu Gly Asp Arg Trp Phe Leu Arg Val Glu Asp Arg Gln Asp Leu Asn
115 120 125

Arg Gln Arg Ile Gln Arg Tyr Ala Gln Ala Phe His Thr Arg Gly Ser
130 135 140

Glu Asp Leu Asp Lys Asp Ser Val Glu Lys Leu Glu Leu Gly Cys Pro
145 150 155 160

Phe Ser Pro His Leu Ser Leu Pro Met Pro Ser Val Ser Arg Ser Thr
165 170 175

Ser Arg Ser Ser Ala Asn Trp Glu Arg Leu Arg Gln Gly Thr Leu Arg
180 185 190

Arg Asp Leu Arg Gly Ile Ile Asn Arg Gly Leu Glu Asp Gly Glu Ser
195 200 205

Trp Glu Tyr Gln Ile
210

<210> 916

<211> 1302

<212> DNA

<213> Homo sapiens

<400> 916

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ctcatctcca cctcatccat gcccaaaatg ctggccatct tctggttcaa ttccactacc 360
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aatatccttt cccattccta ctgcctacac caagatgtca tgaagctggc ctgtgatgat 660
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<210> 917

<211> 2061

<212> DNA
<213> Homo sapiens

<400> 917

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tactattgtg tcaagtctct g 2061

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<210> 918
<211> 957
<212> DNA
<213> Homo sapiens

<400> 918

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cccatgtata tatttctttg catgctttca ggcattgaca tcctcatctc cacctcatcc 240
atgccccaaa tgctggccat cttctgggtc aattccacta ccatccagtt tgatgcttgt 300
ctgctacaga tgtttgccat ccactcctta tctggcatgg aatccacagt gctgctggcc 360
atggcctttg accgctatgt ggccatctgt caccactgc gccatgccac agtacttacg 420

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Met Pro Lys Met Leu Ala Ile Phe Trp Phe Asn Ser Thr Thr Ile Gln
 85 90 95
 Phe Asp Ala Cys Leu Leu Gln Met Phe Ala Ile His Ser Leu Ser Gly
 100 105 110
 Met Glu Ser Thr Val Leu Leu Ala Met Ala Phe Asp Arg Tyr Val Ala
 115 120 125
 Ile Cys His Pro Leu Arg His Ala Thr Val Leu Thr Leu Pro Arg Val
 130 135 140
 Thr Lys Ile Gly Val Ala Ala Val Val Arg Gly Ala Ala Leu Met Ala
 145 150 155 160
 Pro Leu Pro Val Phe Ile Lys Gln Leu Pro Phe Cys Arg Ser Asn Ile
 165 170 175
 Leu Ser His Ser Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys
 180 185 190
 Asp Asp Ile Arg Val Asn Val Val Tyr Gly Leu Ile Val Ile Ile Ser
 195 200 205
 Ala Ile Gly Leu Asp Ser Leu Leu Ile Ser Phe Ser Tyr Leu Leu Ile
 210 215 220
 Leu Lys Thr Val Leu Gly Leu Thr Arg Glu Ala Gln Ala Lys Ala Phe
 225 230 235 240
 Gly Thr Cys Val Ser His Val Cys Ala Val Phe Ile Phe Tyr Val Pro
 245 250 255
 Phe Ile Gly Leu Ser Met Val His Arg Phe Ser Lys Arg Arg Asp Ser
 260 265 270
 Pro Leu Pro Val Ile Leu Ala Asn Ile Tyr Leu Leu Val Pro Pro Val
 275 280 285
 Leu Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Glu Ile Arg Gln Arg
 290 295 300
 Ile Leu Arg Leu Phe His Val Ala Thr His Ala Ser Glu Pro
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 <211> 28
 <212> PRT
 <213> Homo sapiens

 <400> 921
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 <210> 922
 <211> 9
 <212> PRT
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 <400> 922
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 <210> 923
 <211> 21
 <212> PRT
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 <400> 923
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 Ala Cys Leu Leu Gln
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 <210> 924
 <211> 20
 <212> PRT
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 <400> 924
 Asp Arg Tyr Val Ala Ile Cys His Pro Leu Arg His Ala Thr Val Leu
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 Thr Leu Pro Arg
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 <210> 925
 <211> 37
 <212> PRT
 <213> Homo sapiens

 <400> 925
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 Tyr Cys Leu His Gln Asp Val Met Lys Leu Ala Cys Asp Asp Ile Arg
 20 25 30

Val Asn Val Val Tyr
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<400> 926
Lys Thr Val Leu Gly Leu Thr Arg Glu Ala Gln Ala Lys
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<210> 927
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<400> 927
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<210> 928
<211> 22
<212> PRT
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<400> 928
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<210> 929
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<212> DNA
<213> Homo sapiens

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<210> 930

<211> 1479

<212> DNA

<213> Homo sapiens

<400> 930

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<210> 931

<211> 1476

<212> DNA

<213> Homo sapiens

<400> 931

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<210> 932
 <211> 492
 <212> PRT
 <213> Homo sapiens

<400> 932
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 20 25 30
 Val Pro Thr Val Tyr Glu Val His Pro Ala Gln Tyr Tyr Pro Ser Pro
 35 40 45
 Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
 50 55 60
 Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
 65 70 75 80
 Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
 85 90 95
 Gly Ala Ala Leu Ala Ala Gly Leu Leu Trp Lys Phe Met Gly Ser Lys
 100 105 110
 Cys Ser Asn Ser Gly Ile Glu Cys Asp Ser Ser Gly Thr Cys Ile Asn
 115 120 125
 Pro Ser Asn Trp Cys Asp Gly Val Ser His Cys Pro Gly Gly Glu Asp
 130 135 140
 Glu Asn Arg Cys Val Arg Leu Tyr Gly Ser Asn Phe Ile Leu Gln Val
 145 150 155 160
 Tyr Ser Ser Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp
 165 170 175
 Asn Glu Asn Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn
 180 185 190
 Asn Phe Tyr Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser
 195 200 205
 Phe Met Lys Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys
 210 215 220
 Leu Tyr His Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg
 225 230 235 240
 Cys Ile Ala Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile
 245 250 255
 Val Gly Gly Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser
 260 265 270
 Leu His Val Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro
 275 280 285
 Glu Trp Ile Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn Asn
 290 295 300
 Pro Trp His Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met
 305 310 315 320
 Phe Tyr Gly Ala Gly Tyr Gln Val Glu Lys Val Ile Ser His Pro Asn
 325 330 335
 Tyr Asp Ser Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln
 340 345 350

Lys Pro Leu Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn
 355 360 365
 Pro Gly Met Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp
 370 375 380
 Gly Ala Thr Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala
 385 390 395 400
 Lys Val Leu Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr
 405 410 415
 Asp Asn Leu Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly
 420 425 430
 Asn Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser
 435 440 445
 Lys Asn Asn Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly
 450 455 460
 Cys Ala Lys Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe
 465 470 475 480
 Thr Asp Trp Ile Tyr Arg Gln Met Arg Ala Asp Gly
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<210> 933
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 933
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 35 40 45
 Val Pro Gln Tyr Ala Pro Arg Val Leu Thr Gln Ala Ser Asn Pro Val
 50 55 60
 Val Cys Thr Gln Pro Lys Ser Pro Ser Gly Thr Val Cys Thr Ser Lys
 65 70 75 80
 Thr Lys Lys Ala Leu Cys Ile Thr Leu Thr Leu Gly Thr Phe Leu Val
 85 90 95
 Gly Ala Ala Leu
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<210> 934
 <211> 393
 <212> PRT
 <213> Homo sapiens

<400> 934
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 35 40 45

Cys Val Arg Leu Tyr Gly Ser Asn Phe Ile Leu Gln Val Tyr Ser Ser
 50 55 60
 Gln Arg Lys Ser Trp His Pro Val Cys Gln Asp Asp Trp Asn Glu Asn
 65 70 75 80
 Tyr Gly Arg Ala Ala Cys Arg Asp Met Gly Tyr Lys Asn Asn Phe Tyr
 85 90 95
 Ser Ser Gln Gly Ile Val Asp Asp Ser Gly Ser Thr Ser Phe Met Lys
 100 105 110
 Leu Asn Thr Ser Ala Gly Asn Val Asp Ile Tyr Lys Lys Leu Tyr His
 115 120 125
 Ser Asp Ala Cys Ser Ser Lys Ala Val Val Ser Leu Arg Cys Ile Ala
 130 135 140
 Cys Gly Val Asn Leu Asn Ser Ser Arg Gln Ser Arg Ile Val Gly Gly
 145 150 155 160
 Glu Ser Ala Leu Pro Gly Ala Trp Pro Trp Gln Val Ser Leu His Val
 165 170 175
 Gln Asn Val His Val Cys Gly Gly Ser Ile Ile Thr Pro Glu Trp Ile
 180 185 190
 Val Thr Ala Ala His Cys Val Glu Lys Pro Leu Asn Asn Pro Trp His
 195 200 205
 Trp Thr Ala Phe Ala Gly Ile Leu Arg Gln Ser Phe Met Phe Tyr Gly
 210 215 220
 Ala Gly Tyr Gln Val Glu Lys Val Ile Ser His Pro Asn Tyr Asp Ser
 225 230 235 240
 Lys Thr Lys Asn Asn Asp Ile Ala Leu Met Lys Leu Gln Lys Pro Leu
 245 250 255
 Thr Phe Asn Asp Leu Val Lys Pro Val Cys Leu Pro Asn Pro Gly Met
 260 265 270
 Met Leu Gln Pro Glu Gln Leu Cys Trp Ile Ser Gly Trp Gly Ala Thr
 275 280 285
 Glu Glu Lys Gly Lys Thr Ser Glu Val Leu Asn Ala Ala Lys Val Leu
 290 295 300
 Leu Ile Glu Thr Gln Arg Cys Asn Ser Arg Tyr Val Tyr Asp Asn Leu
 305 310 315 320
 Ile Thr Pro Ala Met Ile Cys Ala Gly Phe Leu Gln Gly Asn Val Asp
 325 330 335
 Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Thr Ser Lys Asn Asn
 340 345 350
 Ile Trp Trp Leu Ile Gly Asp Thr Ser Trp Gly Ser Gly Cys Ala Lys
 355 360 365
 Ala Tyr Arg Pro Gly Val Tyr Gly Asn Val Met Val Phe Thr Asp Trp
 370 375 380
 Ile Tyr Arg Gln Met Arg Ala Asp Gly
 385 390